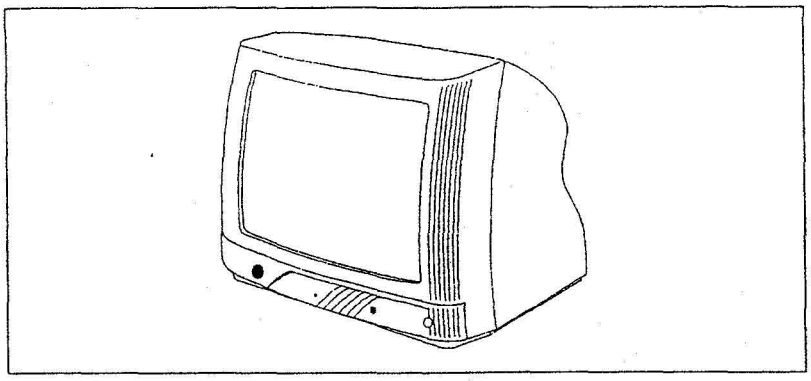
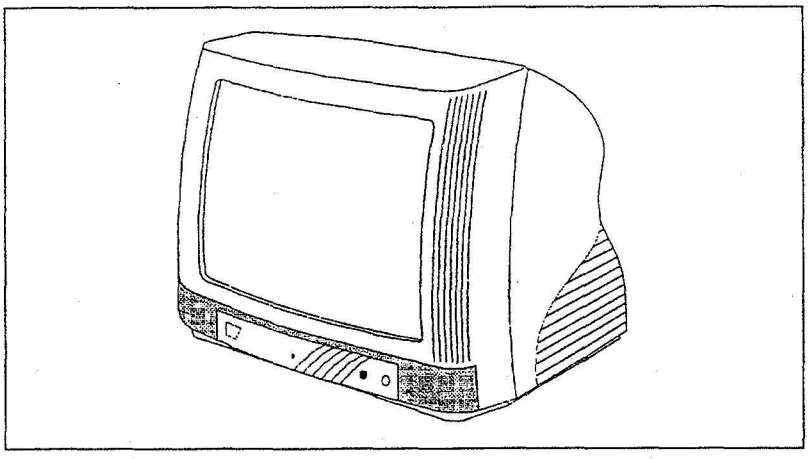
NECKERMANN

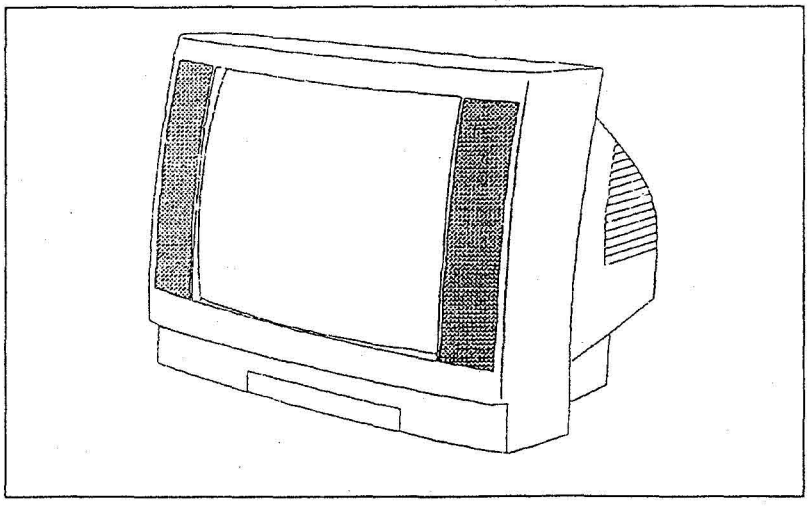
PALLADIUM



015/407 - 015/415



765/279 - 765/295 - 765/309 - 765/333



765/317

Bestell-Nr.
110765317
Bezeichnung 230997
SERVICEMANUAL PC 1
Preis
025 004 NNNLSNN
Komm.-Nr. Lagerort
FA 010 09153 03

COLOR TELEVISION SERVICE MANUAL

Cod. 931995429

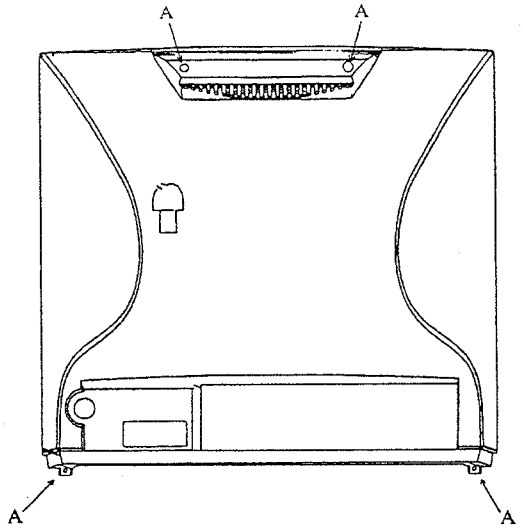
GENERAL FEATURES

CHASSIS	- Series PC180 "cold" modular type electrically separated from mains
POWER SUPPLY	- 220V +/- 10%, 50/60Hz
MUSIC POWER	- 2 Watt 5 + 5 Watt (765/317 and 765/333)
EHT	- 24,5 KV 22,5 KV (015/407 and 015/415)
MAX BEAM CURRENT	- 950 µA 700 µA (015/407 and 015/415)
PICTURE TUBE	- MN-Dark (015/407 85509700X) PIL S4 (015/407 85505400X, 015/415, 765/279 and 765/295) Mini-Neck (763/309 and 765/333) Full (765/317)
ANTENNA INPUT	- 75 Ohm DIN 45325-2
TUNER	- Varicap type with CATV and hyperband
TUNING SYSTEM	- Voltage synthesis type with On-Screen-Display
PROGRAM PRESELECTION	- 50 storable programs
EXTERNAL IN/OUTPUTS	- Headphone Jack - Peritelevision (SCART) connection type EN 50049
RECEPTION STANDARD	- C.C.I.R. PAL B-G
TELETEXT	- Unitext - Ready (15/407 and 765/279)

ACCESS TO INTERNAL COMPONENTS

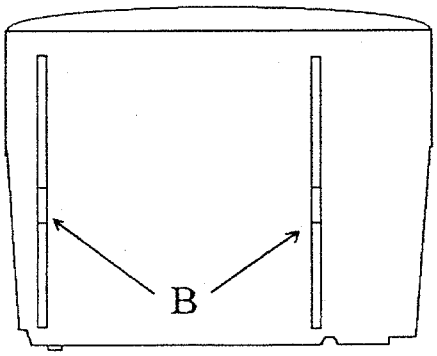
To remove the back panel:

- Unscrew **A** screws.
- Pull the bottom part of the back panel and remove it.



MAIN CHASSIS REMOVAL

- To remove the chassis press the tags **B** towards the hand sides of the cabinet and at the same time pull out the chassis.
- To insert the chassis plug it into the appropriate guides and press it till will be locked by the tags **B**.



SAFETY NOTE

-Do not accidentally touch that part of chassis supply not electrically separated from mains.
-Do not install, remove, or handle the picture tube unless shatter-proof goggles are worn and install, remove or handle only after having kept away people not so equipped
-Before returning a serviced receiver to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacturer has become defective or inadvertently defected during servicing.

Therefore following checks are recommended:
-**Insulation.** Resistance should not be less than 2M Ohm at 500 V DC between the mains poles and any accessible metal parts.
-**High voltage.** High voltage should not be kept higher than the rated value indicated on the receiver's back panel. Operating at higher voltage may cause failure of the picture tube or of high voltage supply.

Furthermore, in no case whatsoever must the electrical circuit providing the EHT be altered so as to prevent wrong voltage values from causing ionizating radiations above those allowed by International Standards.

MAIN COMPONENTS

PC180 - Multifunctional chassis including following functional units:
a) Tuning circuit (ST6367 - TDA8361A)
b) Vertical deflection (TDA3653B)
c) Horizontal deflection (TDA8361A - T603)
d) Switch-mode power supply (TEA2261 - T401)
e) 5V and 12V switching circuit (TDA8138)
f) Audio output circuit (TDA7056A)
g) Luminance and chrominance circuit (TDA8361A)
h) Video selector (74HC4053)

PCBS plugged on chassis

F2477 - RF Hyperband Tuner (38,9 MHz video IF; 33,4 MHz audio IF)
I VHF Band: from ch E2 to ch S1 (48.25 - 105.25 MHz)
III VHF Band: from ch S2 to ch S41 (112.25 - 465.25 MHz)
UHF Band: from ch E21 to E69 (471.25 - 855.25 MHz)
PC136 - Decoder audio stereo (765/317 and 765/333)
PC16.4 or PC183 - Teletext decoder (not in 015/407 and765/279)

PCBS plugged off chassis

PC181 - CRT p.c.b. with video output stages

ICS used and relevant functions

Schematic ref.	Type	P.c.B.	Electronic Functions
C 1	ST6367/77/87	PC180	Tuning Microcomputer with On-Screen-Display
CI 101	TDA8361A	PC180	IF amplifier - Video decoder
CI 102	TDA4665	PC180	Delay line
CI 104	74HC4053	PC180	Video selector
CI 201 (S)	TDA7056	PC180	Audio amplifier
CI 301	TDA3653B	PC180	Vertical output amplifier
CI 401	TEA2261	PC180	Switch-mode oscillator and control
CI 402	TDA8138	PC180	5V and 12V stabilizer
CI 903	TDA3845	PC136	Audio demodulator
CI 904	MPS3400	PC136	Audio processor

Transistors used and relevant functions

Schematic Ref.	Type	P.c.B.	Electronic functions
T 501	BC858	PC180	Band IV-V switching
T 502	BC858	PC180	Band III switching
T 503	BC858	PC180	Band I switching
T 504	BSX20	PC180	Tuning voltage amplifier
T 103	BC548B	PC180	AFC
T 101	BC848B	PC180	Emitter follower
T 102	BC548B	PC180	Emitter follower
T 113	BC548B	PC180	Fast blanking driver (OSD)
T 112	BC548B	PC180	Red character driver (OSD)
T 111	BC548B	PC180	Green character driver (OSD)
T 110	BC548B	PC180	Blue character driver (OSD)
T 404	BC635	PC180	8V stabilisation
T 403	BC848B	PC180	8V stabilisation
T 401	SGSF313XI	PC180	Switch-mode transistor switch
T 402	BC548B	PC180	Stand-by switch
T 301	BC548B	PC180	Vertical shift
T 302	BC558B	PC180	Vertical shift
T 601	BC848	PC180	Horizontal driver
T 602	BD675	PC180	Horizontal driver
T 603	BU808DX	PC180	Horizontal output amplifier
T 104	BC848	PC180	Audio BG/DK select
T 107	BC848B	PC180	Emitter follower
T 701	BF422	PC181	Red output amplifier
T 703	BF421	PC181	Red beam current measurement
T 704	BF422	PC181	Green output amplifier
T 706	BF421	PC181	Green beam current measurement
T 707	BF422	PC181	Blue output amplifier
T 709	BF421	PC181	Blue beam current measurement

1) Power Supply

Conditions: Set brightness and contrast to the minimum (dark condition).

Operations: Adjust P401 to obtain, on C420 (TP111), the following value:

105V_{DC}±1V when diode D410A present on chassis.

118V_{DC}±1V when diode D410 present on chassis.

Note: on chassis is present D410 or, alternately, D410A.

2) Video Frequency (IF):

Conditions: Apply a standard modulated IF signal of 50 mV amplitude to the CH501.

Operations: Connect a balanced oscilloscope probe on pin 19 scart connector.

- Connect a voltmeter on pin 9 of CI1.
- Adjust L101 to read 2,5 V on voltmeter and to obtain the best signal on oscilloscope.

3) Tuner AGC

Conditions: Tune a channel at the end of BAND III (e.g. channel E11) with RF input of 1mV.

- Connect a voltmeter to C508.

Operations: Set P101 full on counterclockwise and check that the voltage is about 8V.

- Adjust then P101 to obtain a reduction of the previous measured voltage of 300mV.

4) Adjustment of geometry control parameters

Conditions: monoscope or cross hatch signal from antenna and normalised brightness, contrast and colour.

Operations:

- Adjust P303 for vertical shift correction.
- Adjust P302 for vertical amplitude correction.
- Adjust P301 for vertical correction.

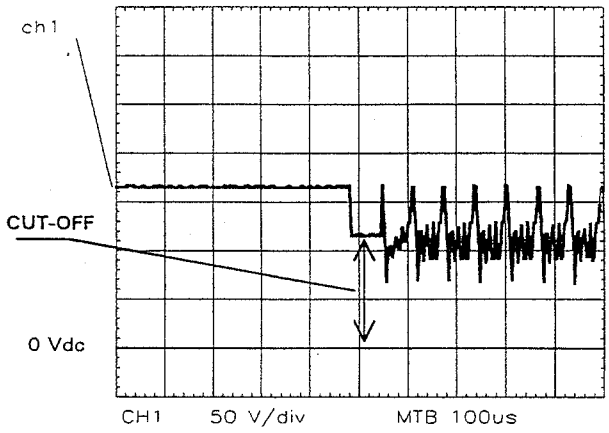
5) Automatic Cut-Off

Conditions: normal TV signal.

- Set the Colour, Brightness and Contrast to minimum setting. Check, with oscilloscope, the dc voltages of cut-off pulse visible during the vertical blanking on collectors of T701-T702-T703 and select the higher pulse (see Fig. 1).

Operations: Adjust the cut-off pulse with G2 potentiometers (on the EHT transformer) to obtain the following level:

- 150V_{DC} if the power supply of the video amplifiers (TP160) is ≅ 190V_{DC}
- 130V_{DC} if the power supply of the video amplifiers (TP160) is ≅ 160V_{DC}
- 115V_{DC} if the power supply of the video amplifiers (TP160) is ≅ 140V_{DC}



6) Focusing

Adjust the potentiometer on the EHT transformer in order to obtain the best focus conditions.

7) White setting

Conditions: Use a staircase black/white signal and set the Colour, Brightness and Contrast to obtain a normal picture.

- Adjust P701 and P702, if present, to obtain the maximum video signal on T701-T704-T707 collectors.

Operations: Adjust P701 and P702 to obtain a grey level staircase without any colour.

SPARE PARTS LIST

MODELS:

a.	015/407	85509700x *
b.	015/407	85505400x *
c.	015/415	85505500x *
d.	765/279	85505600x *
e.	765/295	85505700x *
f.	765/309	85505800x *
g.	765/317	85505900x *
h.	765/333	85506000x *

Assy	*Code Number*	*Description*	*PK*	*a*	*b*	*c*	*d*	*e*	*f*	*g*	*h*
PC180	805281000	14" mono main chassis	08E	•							
PC180	805254000	14" mono main chassis	08F		•	•					
PC180	805241100	20" mono main chassis	08K				•	•			
PC180	805238000	21" mono main chassis	08K						•		
PC180	805274000	21" stereo main chassis	08K							•	
PC180	805248000	21" stereo main chassis	08M								•
PC136	805153000	Decoder stereo	06V							•	•
PC183 or PC16.4	805233000 804689400	Teletext decoder	07B			•		•	•	•	•
C1S	792464000	Remote control	06A	•	•	•	•	•	•	•	•
	712091000	14" 90° Picture tube	08B	•							
	712152000	14" 90° Picture tube	08B		•	•					
	712142000	20" 90° Picture tube	08N				•	•			
	712158000	21" 90° Picture tube	08R						•		•
	712159000	21" 90° Picture tube	08H							•	
	804341000	Degaussing coil	04H	•	•	•					
	805133000	Degaussing coil	04S				•	•			
	805134000	Degaussing coil	04U						•	•	•
	732094000	16 ohm 1 w Loudspeaker	04G	•	•	•					
	732120000	16 ohm 15 w Loudspeaker	05G				•	•	•		
	732100000	8 ohm 3 w Loudspeaker	05F							•	
	732119000	8 ohm 15 w Loudspeaker	05G								•
	692071000	Supply cable	04G	•	•	•	•	•	•	•	•
	752012000	Battery 1,5 V (2 pieces)	02M	•	•	•	•	•	•	•	•
	469139000	Owner's manual	03C	•	•	•	•	•	•	•	•

* Technical code of TV model findable on the back cover.
The last not significative number can be change.

Ref.	Code Number	Description			P. K.
TOTAL ASSY	805281000	14" MAIN CHASSIS PC180			
	682643000	CRT SOCKET 14"/17"			03R
	882238000	TUNER UNIT			06L
C-1--118-148-206-416-508	512184000	CEN'47U	M	25V	01F
C-101-141-802	930073163	CEN'2U2	M	63V	01E
C-11-147-415-427-431	512278000	CEN'220U	M	25V	01M
C-104-109-110-124-202-407-408-607-608	930073161	CEN'1U0	M	100V	01F
C-123-308-510-610	532276000	CFN'100N	K	63V	01H
C-125	930073663	CEN'4U7	M	63V	01E
C-7-112-140-430-305	512276000	CEN'10U	M	63V	01F
C-150-135-424-432-507-603	930071451	CEN'100U	M	25V	01G
C-204-423	930072506	CRB 470U	M	25V	01T
C-307	930072983	CRB 1000U	M	25V	02E
C-309	930073745	CEN'100U	M	35V	01P
C-310	930073427	CRB 1000U	M	35V	02H
C-311	532378000	CFN'22NF	J	63V	01G
C-401	532447000	CFS 330N	M	275VCA	02T
C-402	930073653	CMM 47N	K	630V P15	01N
C-403-404	930074038	CCN'1N0	M	1KV 2B4	01F
C-405	512291000	CEF 68U	M	385V D22	04H
C-406	522648000	CCS 4N7	M	400/4KV	02Z
C-410	532422000	CFN'2N2	J	63V	01H
C-411-609	532362000	CFN'220N	J	63V	01N
C-417	523173000	CCN'220P	M	2KV	01T
C-418	532433000	CTS 1N0	J	1KV5 P15	02A
C-420	512302000	CRA 100U	M	160V	03F
C-426	512244000	CEN'470U	M	16V	01S
C-502	930072294	CFN'10N	K	63V	01H
C-601-602A-701	930073833	CRA 10U	T	250V	01Z
C-604	512309000	CEN'10U	M	I.R.63V	01Q
C-605	930072141	CTS 6N8	J	2KV P225	02M
C-606	532441000	CPM 390N	K	250V P15	02P
C-713	522625000	CAT 2N2	M	2KV	01P
CH-1	612654000	BNS-56UH	K	SUB.	01Q
CH-201-202-JP175	930071276	BNA-10UH	K		01Q
CH-401-402	930071361	BCH 47UH	K	800MA	02C
CH-403	612665000	BNA-2,2UH	K		01P
CH-404-405	930072465	BNU 23.5D050F4,1		TA593/A	01M
CH-501A	612635000	BNS-1UH	K	SUB.	01Q
CH-603	930070854	BNA-4,7 UH	K		01P

Ref.	Code Number	Description	P. K.
CH 101	612634000	BNS-10UH K SUB.	01Q
CI-1	931590074	CI NOVA02H ST6377BB1/BMI	05K
CI-101	592995000	CI TDA8361A	06A
CI-102	592986000	CI TDA4665	04G
CI-104	592999000	CI 74HC4053 PH MOS	03A
CI-201	592990000	CI TDA7056/A	03U
CI-301	592596000	CI TDA3653B	03Q
CI-401	592679000	CI TEA2261	04B
CI-402	592641000	CI TDA8138 (SIP9)	03U
CN-201	682688000	2 WAYS CONNECTOR P2,5M	01L
CN-TTX1-TTX2	682601000	8 WAYS CONNECTOR P2.5M	01T
CN 301	682153000	4 WAYS CONNECTOR P5 M V	01K
CN 401	682678000	2 WAYS CONNECTOR P7,62M	02H
CN 402	682151000	3 WAYS CONNECTOR P5 M	01H
CN 601A-601B	682596000	4 WAYS CONNECTOR P2,5 WH4D-1	01G
CN701A-CN701B	682611000	6 WAYS CONNECTOR P2,5 WH6D-1	01K
D-101-102-103-104-106-108-501-502-503-702-704-706	582183000	DCM.LL4148 BULK	01D
D-107-301-401-402-403-404	930074478	DSR-1N4006 IFSM 50A	01E
D-405	930074457	DSC-1N4148	01B
D-406-602	930074085	DSC-BA157 VR400 IF1/9A	01F
D-407-603-604	583029000	DSC-BA159 VR1000 IF1/9A	01G
D-408-409	582219000	DRV-BYV27/100 I=2A	02F
D-410 A	582179000	DRV-BYV95C VR600 I1,5/35A	01T
DL1	582221000	DLD LED D=3 GREEN/RED	02G
DZ-101	584010000	DZE-ZPD5V1	01D
DZ-401	930070972	DZE-ZPD3V3	01D
DZ-402	930070796	CI -ZTK33A 30-32V	02H
DZ-601	930074074	DZE-ZPD8V2	01E
F-401	652035000	2A T 250V FUSE 5X20	01M
FC-102	930702202	RI 5,5 FILTER M. SFT/MA	03L
FC-103	792371000	TPS5,5MB-FILTER TF21	02V
FC501	792264000	OA.STD P/BG FILTER OFWG1962	04N
I-401	672138000	POWER SWITCH 5/120A 250V	03T
IR1	792295100	INFRARED RECEIVER	04E
L-101	612668000	BSE 7X7 38,9MHZ	02P
P-101	552167000	POA 4K7 M 0,1W	01M
P-102	552226000	PTO 10K M 0,1W <	01V
P-302	930072357	PTV 100R M 0,1W	01N
P-303	552214000	PTV 100K M 0,1W	01N
P-401	930072519	POA 1K0 M 0,1W	01M
PO402	544492000	PTC	03D
PR-803N	682510000	JACK SOCKET .C/SW D3.5MM	04A

Ref.	Code Number	Description	P. K.
PS-1	682777000	SCART SOCKET (BLUE)	03F
Q-1	792297000	8MHZ QUARTZ HC49/U (20PF)	03C
Q-101	792452000	4433,619KHZ QUARTZ HC49/U	03N
R-1-...-507-603-613	930070342	RFU-4R7 J 0,3W	01K
R-101	930070013	RFU-2R2 J 0,4W	01P
R-201	930071005	RPM 4R7 J 2W	01F
R-308	544222000	RSM-1R5 J 1W	01P
R-310	930071020	RSC 270R J 1W	01C
R-401	543915000	RFA 4R7 K 4W	02M
R-404	930070094	RFU 1R0 J 1W	01P
R-410	544228000	RPM-15R J 1W	01H
R-411	543983000	RPM 33K J 2W	01H
R-412	543069000	RSM-33R J 0,7W	01H
R-417	544137000	RFA-R47 J 2W	02C
R-418 A	544462000	RPA 1K0 J 10W T=25	03B
R-419	930071086	RAI 10M J 1W	02C
R-604	544476000	RPC 100R J 4W	02H
R-612	544477000	RPA 5R6 J 5W	02Q
R-615-617	543083000	RFU-R10 K 0,5W	01V
R-705-715-725	543762000	RPM 10K J 1W	01F
R-731A	543879000	RPM R47 K 2W	01U
RIF-A1-A2	342087000	SPRING OT STN	01H
RIF.-JP19	544501000	RFU 3R9 J 07W NKS4	02E
T-101-104-107-403-601-801	572282000	TNC=BC848/B NPN 1K	01G
T-102-103	930071228	TRN'BC548B NPN CO.>	01F
T-110-111-112-113-301-402	930071228	TRN'BC548B NPN EM.>	01F
T-302	930071230	TRN'BC558B PNP CO.>	01D
T-401	572318000	TR SGSF313-XI PNP	03H
T-404	572331000	TRN'BC635 NPN EM.>	01T
T-501-502-503	572294000	TNC=BC858B PNP 3K	01F
T-504	572260000	TR BSX20 NPN	02D
T-602	572234000	TR BD675 NPN	02L
T-603	572362000	TR BU808DXI	04C
T-701-704-707	572314000	TRN'BF422 NPN BA.>	01N
T-703	572324000	TRN'BF421 NPN BA.>	01N
T-706-709	572319000	TRN'BF421 NPN EM.>	01Q
TR-402	622159000	SWITCH MODE	04T
TR-601	632054000	EHT TRANSFORMER	06K
TR401	612648000	BFR 2X28MH +/-30%	04D
TS-1	672115000	FRONT TACT SWITCH (KEYBOARD)	03R
FOR DL1	483147100	LED SUPPORT	01K
FOR F401	652031000	6 A 250V FUSE SOCKET P=15	01Q

Ref.	Code Number	Description			P. K.
TOTAL ASSY	805254000	MAIN CHASSIS EKR.PC180			
	882238000	TUNER UNIT			06L
C-1-118-148-206-416-508	512184000	CEN'47U	M	25V	01F
C-101-141-802	930073163	CEN'2U2	M	63V	01E
C-104-109-110-124-202-407-408-607-608	930073161	CEN'1UO	M	100V	01F
C-11-147-41-4275-431	512278000	CEN'220U	M	25V	01M
C-123-308--510-610	532276000	CFN'100N	K	63V	01H
C-125	930073663	CEN'4U7	M	63V	01E
C-7-112-140-430-305	512276000	CEN'10U	M	63V	01F
C-150-135-424-432-507-603	930071451	CEN'100U	M	25V	01G
C-204-423	930072506	CRB 470U	M	25V	01T
C-307	930072983	CRB 1000U	M	25V	02E
C-309	930073745	CEN'100U	M	35V	01P
C-310	930073427	CRB 1000U	M	35V	02H
C-311	532378000	CFN'22NF	J	63V	01G
C-401	532447000	CFS 330N	M	275VCA	02T
C-402	930073653	CMM 47N	K	630V P15	01N
C-403-404	930074038	CCN'1NO	M	1KV 2B4	01F
C-405	512291000	CEF 68U	M	385V D22	04H
C-406	522648000	CCS 4N7	M	400/4KV	02Z
C-410	532422000	CFN'2N2	J	63V	01H
C-411-609	532362000	CFN'220N	J	63V	01N
C-417	523173000	CCN'220P	M	2KV	01T
C-418	532433000	CTS 1NO	J	1KV5 P15	02A
C-420	512302000	CRA 100U	M	160V	03F
C-426	512244000	CEN'470U	M	16V	01S
C-502	930072294	CFN'10N	K	63V	01H
C-601-602A-701	930073833	CRA 10U	T	250V	01Z
C-604	512309000	CEN'10U	M	I.R.63V	01Q
C-605	930072141	CTS 6N8	J	2KV P225	02M
C-606	532441000	CPM 390N	K	250V P15	02P
C-713	522625000	CAT 2N2	M	2KV	01P
CH-1	612654000	BNS-56UH	K	SUB.	01Q
CH-201-202-JP175	930071276	BNA-10UH	K		01Q
CH-401-402	930071361	BCH 47UH	K	800MA	02C
CH-403	612665000	BNA-2,2UH	K		01P
CH-404-405	930072465	BNU 23.5D050F4,1 TA593/A			01M
CH-501A	612635000	BNS-1UH	K	SUB.	01Q
CH-603	930070854	BNÀ-4,7 UH	K		01P
CH-101	612634000	BNS-10UH	K	SUB.	01Q
CI-1	931590074	CI NOVA02H ST6377BB1/BMI			05K

Ref.	Code Number	Description	P. K.
CI-101	592995000	CI TDA8361A	06A
CI-102	592986000	CI TDA4665	04G
CI-104	592999000	CI 74HC4053 PH MOS	03A
CI-201	592990000	CI TDA7056/A	03U
CI-301	592596000	CI TDA3653B	03Q
CI-401	592679000	CI TEA2261	04B
CI-402	592641000	CI TDA8138 (SIP9)	03U
CN-201	682688000	2 WAYS CONNECTOR P2,5M	01L
CN-TTX1-TTX2	682601000	8 WAYS CONNECTOR P2.5M	01T
CN301	682153000	4 WAYS CONNECTOR P5 M	01K
CN401	682678000	2 WAYS CONNECTOR P7,62M V	01K
CN402	682151000	3 WAYS CONNECTOR P5 M	01H
CN601A-601B	682596000	4 WAYS CONNECTOR P=2,5 WH4D-1	01G
CN701A-CN701B	682611000	6 WAYS CONNECTOR P=2,5 WH6D-1	01K
D-101-102-103-104-106-108-501-502-503-702-704-706	582183000	DCM.LL4148 BULK	01D
D-107-301-401-402-403-404	930074478	DSR-1N4006 IFSM 50A	01E
D-405	930074457	DSC-1N4148	01B
D-406-602	930074085	DSC-BA157 VR400 IF1/9A	01F
D-407-603-604	583029000	DSC-BA159 VR1000 IF1/9A	01G
D-408-409	582219000	DRV-BYV27/100 I=2A	02F
D-410 A	582179000	DRV-BYV95C VR600 I1,5/35A	01T
DL-1	582221000	DLD LED D=3 GREEN/RED	02G
DZ-101	584010000	DZE-ZPD5V1	01D
DZ-401	930070972	DZE-ZPD3V3	01D
DZ-402	930070796	CI -ZTK33A 30-32V	02H
DZ-601	930074074	DZE-ZPD8V2	01E
F-401	652035000	2A T 250V FUSE 5X20	01M
FC-102	930702202	RI 5,5 FILTER M. SFT/MA	03L
FC-103	792371000	TPS5,5MB-FILTER TF21	02V
FC-501	792264000	P/BG OFWG1962 FILTER	04N
I-401	672138000	POWER SWITCH 5/120A 250V	03T
IR1	792295100	INFRARED RECEIVER LTM-9034A-	04E
L-101	612668000	BSE 7X7 38,9MHZ	02P
P-101	552167000	POA 4K7 M 0,1W	01M
P-102	552226000	PTO 10K M 0,1W <	01V
P-302	930072357	PTV 100R M 0,1W	01N
P-303	552214000	PTV 100K M 0,1W	01N
P-401	930072519	POA 1K0 M 0,1W	01M
PO-402	544492000	PTC'X 14"NOVA	03D
PR-803N	682510000	HEADPHONE ST.C/SW D3.5MM	04A
PS-1	682777000	SCART SOCKET	03F
Q-1	792297000	8MHZ QUARTZ HC49/U (20PF)	03C

Ref.	Code Number	Description	P. K.
Q-101	792452000	4433,619KHZ QUARTZ HC49/U	03N
R-1-507-603-613	930070342	RFU-4R7 J 0,3W	01K
R-101	930070013	RFU-2R2 J 0,4W	01P
R-201	930071005	RPM 4R7 J 2W	01F
R-308	544222000	RSM-1R5 J 1W	01P
R-310	930071020	RSC 270R J 1W	01C
R-401	543915000	RFA 4R7 K 4W	02M
R-404	930070094	RFU 1R0 J 1W	01P
R-410	544228000	RPM-15R J 1W	01H
R-411	543983000	RPM 33K J 2W	01H
R-412	543069000	RSM-33R J 0,7W	01H
R-417	544137000	RFA-R47 J 2W	02C
R-418 A	544462000	RPA 1K0 J 10W T=25	03B
R-419	930071086	RAI 10M J 1W	02C
R-604	544476000	RPC 100R J 4W	02H
R-607	543088000	RPV 6K8 K 5W	02P
R-612	544477000	RPA 5R6 J 5W	02Q
R-615-617	543083000	RFU-R10 K 0,5W	01V
R-705-715-725	543762000	RPM 10K J 1W	01F
R-731	543879000	RPM R47 K 2W	01U
R-202S,JP-140	930074793	DSR-1N4001 IFSM 50A	01E
RIF.-JP19	544501000	RFU 3R9 J 07W NKS4	02E
T-101-104-107-403-601-801	572282000	TNC=BC848/B NPN 1K	01G
T-102-103	930071228	TRN'BC548B NPN CO.>	01F
T-110-111-112-113-301-402	930071228	TRN'BC548B NPN EM.>	01F
T-302	930071230	TRN'BC558B PNP CO.>	01D
T-401	572318000	TR SGSF313-XI PNP	03H
T-404	572331000	TRN'BC635 NPN EM.>	01T
T-501-502-503	572294000	TNC=BC858B PNP 3K	01F
T-504	572260000	TR BSX20 NPN	02D
T-602	572234000	TR BD675 NPN	02L
T-603	572362000	TR BU808DXI	04C
T-701-704-707	572314000	TRN'BF422 NPN BA.>	01N
T-703	572324000	TRN'BF421 NPN BA.>	01N
T-706-709	572319000	TRN'BF421 NPN EM.>	01Q
TR-401	612648000	BFR 2X28MH +/-30%	04D
TR-402	622159000	SWITCH MODE 14" PC180	04T
TR-601	632092000	EHT TRANSFORMER 14"	06B
TRC-1	682784000	CRT SOCKET	03R
TS-1	672115000	FRONT TACT SWITCH (KEYBOARD)	03R
FOR DL1	483147100	LED SUPPORT	01K
FOR F401	652031000	6 A 250V FUSE P=15	01Q

Ref.	Code Number	Description			P.K.
TOTAL ASSY	805241100	MAIN CHASSIS 20" PC180			
	682784000	CRT SOCKET			03R
	882238000	TUNER UNIT			06L
C-...	532386000	CFN'1N0	J	63V	01H
C-1-118-148-206-416-508	512184000	CEN'47U	M	25V	01F
C-101-141-802	930073972	CEN'2U2	M	63V	01T
C-104-109-110-124-202-407-408-607-608	930073161	CEN'1U0	M	100V	01F
C-11-147-415-427-431	512278000	CEN'220U	M	25V	01M
C-123-308-...-510-610	532276000	CFN'100N	K	63V	01H
C-125	930073663	CEN'4U7	M	63V	01E
C-7-112-140-430-305	930073468	CEN'10U	M	63V	01G
C-150-135-424-432-507-603	930071451	CEN'100U	M	25V	01G
C-204-423	930072506	CRB 470U	M	25V	01T
C-307	930072983	CRB 1000U	M	25V	02E
C-309	930073745	CEN'100U	M	35V	01P
C-310	930073427	CRB 1000U	M	35V	02H
C-311	532378000	CFN'22NF	J	63V	01G
C-402	930073653	CMM 47N	K	630V P15	01N
C-403-404	930074038	CCN'1N0	M	1KV 2B4	01F
C-405	512240000	CEF 100U	M	385V D22	04H
C-406	522648000	CCS 4N7	M	400/4KV	02Z
C-410	532422000	CFN'2N2	J	63V	01H
C-411-609	532362000	CFN'220N	J	63V	01N
C-417	523173000	CCN'220P	M	2KV	01T
C-418	532433000	CTS 1N0	J	1KV5 P15	02A
C-420	512302000	CRA 100U	M	160V	03F
C-426	512244000	CEN'470U	M	16V	01S
C-502	930072294	CFN'10N	K	63V	01H
C-601-602A-701	930073833	CRA 10U	T	250V	01Z
C-604	512309000	CEN'10U	M	I.R.63V ->	01Q
C-605	532396000	CTS 7N7	J	2KV P225	01F
C-606	532441000	CPM 390N	K	250V P15	02P
C-713	522625000	CAT 2N2	M	2KV	01P
C401	532447000	CFS 330N	M	275VCA	02T
CH-1	612654000	BNS-56UH	K	SUB.	01Q
CH-201-202-JP175	930071276	BNA-10UH	K		01Q
CH-401-402	930071361	BCH 47UH	K	800MA	02C
CH-403	612665000	BNA-2,2UH	K		01P
CH-404-405	930072465	BNU 23.5D050F4,1		TA593/A	01M
CH-501A	612635000	BNS-1UH	K	SUB.	01Q
CH-601	612525000	BLI X DEF.90			03Q

Ref.	Code Number	Description	P. K.
CH-603	930070854	BNA-4,7 UH K	01P
CH-101	612634000	BNS-10UH K SUB.	01Q
CI-1	931590074	CI NOVA02H ST6377BB1/BMI	05K
CI-101	592995000	CI TDA8361A	06A
CI-102	592986000	CI TDA4665	04G
CI-104	592999000	CI 74HC4053 PH MOS	03A
CI-201	592990000	CI TDA7056/A	03U
CI-301	592596000	CI TDA3653B	03Q
CI-401	592679000	CI TEA2261	04B
CI-402	592641000	CI TDA8138 (SIP9)	03U
CN-201	682688000	2 WAYS CONNECTOR P2,5M	01L
CN-TTX1-TTX2	682601000	8 WAYS CONNECTOR P2.5M	01T
CN301	682153000	4 WAYS CONNECTOR P5 M	01K
CN401	682678000	2 WAYS CONNECTOR P7,62M	01K
CN402	682151000	3 WAYS CONNECTOR P5 M V	01H
CN601A-601B	682596000	4 WAYS CONNECTOR P=2,5 WH4D-1	01G
CN701A-CN701B	682611000	6 WAYS CONNECTOR P=2,5 WH6D-1	01K
D-101-102-103-104-106-108-501-502-503-702-704-706	582183000	DCM.LL4148 BULK	01D
D-107-301-401-402-403-404	930074478	DSR-1N4006 IFSM 50A	01E
D-405	930074457	DSC-1N4148	01B
D-406-602	930074085	DSC-BA157 VR400 IF1/9A	01F
D-407-603-604	583029000	DSC-BA159 VR1000 IF1/9A	01G
D-408-409	582219000	DRV-BYV27/100 I=2A	02F
D-410	582179000	DRV-BYV95C VR600 I1,5/35A	01T
DL1	582221000	DLD LED D=3 GREEN/RED	02G
DZ-101	584010000	DZE-ZPD5V1	01D
DZ-401	930070972	DZE-ZPD3V3	01D
DZ-402	930070796	CI -ZTK33A 30-32V	02H
DZ-601	930074074	DZE-ZPD8V2	01E
F-401	652035000	2A T 250V FUSE 5X20	01M
FC-102	930702202	RI 5,5 FILTER M. SFT/MA	03L
FC-103	792371000	TPS5,5MB FILTER TF21	02V
FC501	792264000	OA.STD P/BG OFWG1962 FILTER	04N
I-401	672138000	POWER SWITCH 5/120A 250V	03T
IR1	792295100	INFRARED RECEIVER LTM-9034A-	04E
L-101	612668000	BSE 7X7 38,9MHZ	02P
P-101	552167000	POA 4K7 M 0,1W	01M
P-102	552226000	PTO 10K M 0,1W <	01V
P-302	930072357	PTV 100R M 0,1W	01N
P-303	552214000	PTV 100K M 0,1W	01N
P-401	930072519	POA 1K0 M 0,1W	01M
PO-401	930071400	PTC 260VRMS I.MIN.>5A	03L

Ref.	Code Number	Description	P. K.
PR-803	682510000	JACK SOCKET	04A
PS-1	682777000	SCART SOCKET (BLUE)	03F
Q-1	792297000	8MHZ QUARTZ HC49/U (20PF)	03C
Q-101	792452000	4433,619KHZ QUARTZ HC49/U	03N
R-1-...-507-603-613	930070342	RFU-4R7 J 0,3W	01K
R-101	930070013	RFU-2R2 J 0,4W	01P
R-201	930071005	RPM 4R7 J 2W	01F
R-308	544222000	RSM-1R5 J 1W	01P
R-310	930071020	RSC 270R J 1W	01C
R-401	543915000	RFA 4R7 K 4W	02M
R-404	930070094	RFU 1R0 J 1W	01P
R-410	544228000	RPM-15R J 1W	01H
R-411	543983000	RPM 33K J 2W	01H
R-412	543069000	RSM-33R J 0,7W	01H
R-417	544137000	RFA-R47 J 2W	02C
R-418 A	544462000	RPA 1K0 J 10W T=25	03B
R-419	930071086	RAI 10M J 1W	02C
R-604	544476000	RPC 100R J 4W	02H
R-607	543088000	RPV 6K8 K 5W	02P
R-612	544477000	RPA 5R6 J 5W	02Q
R-614A	543126000	RFP 2K2 J 1W	02A
R-615-617	543083000	RFU-R10 K 0,5W	01V
R-705-715-725	543762000	RPM 10K J 1W	01F
R-731	542938000	RPM R82 K 2W	01U
REF-A1-A2	342087000	SPRING OT STN	01H
REF.R-202S JP-140	930074793	DSR-1N4001 IFSM 50A	01E
REF.-JP19	544501000	RFU 3R9 J 07W NKS4	02E
T-101-104-107-403-601-801	572282000	TNC=BC848/B NPN 1K	01G
T-102-103	930071228	TRN'BC548B NPN CO.>	01F
T-110-111-112-113-301-402	930071228	TRN'BC548B NPN EM.>	01F
T-302	930071230	TRN'BC558B PNP CO.>	01D
T-401	572318000	TR SGSF313-XI PNP	03H
T-401-CI-301-302-603A	342086000	SPRING SOT-93	01H
T-404	572331000	TRN'BC635 NPN EM.>	01T
T-501-502-503	572294000	TNC=BC858B PNP 3K	01F
T-504	572260000	TR BSX20 NPN	02D
T-602	572234000	TR BD675 NPN	02L
T-603	572362000	TR BU808DXI	04C
T-701-704-707	572314000	TRN'BF422 NPN BA.>	01N
T-703	572324000	TRN'BF421 NPN BA.>	01N
T-706-709	572319000	TRN'BF421 NPN EM.>	01Q
TR-601	632091000	EHT TRANSFORMER 20"SAMS.	06B
TR401	612648000	BFR 2X28MH +/-30%.	04D

Ref.	Code Number	Description			P. K.
TR402	622154000	SWITCH MODE 14/21"			04T
TS-1	672115000	FRONT TACT SWITCH (KEYBOARD)			03R
FOR DL1	483147100	LED SUPPORT			01K
FOR F401	652031000	6 A 250V FUSE P=15			01Q
TOTAL ASSY	**805238000**	**21" MAIN CHASSIS PC180**			
	882238000	TUNER UNIT			06L
C-1-118-148-206-416-508	512184000	CEN'47U	M	25V	01F
C-101-141-802	930073972	CEN'2U2	M	63V	01T
C-104-109-110-124-202-407-408-607-608	930073161	CEN'1U0	M	100V	01F
C-11-147-415-431	512278000	CEN'220U	M	25V	01M
C-123-308-...-510-610	532276000	CFN'100N	K	63V	01H
C-125	930073663	CEN'4U7	M	63V	01E
C-7-112-140-430-305	512276000	CEN'10U	M	63V	01G
C-150-135-424-432-507-603	930071451	CEN'100U	M	25V	01G
C-204-423	930072506	CRB 470U	M	25V	01T
C-307	930072983	CRB 1000U	M	25V	02E
C-309	930073745	CEN'100U	M	35V	01P
C-310	930073427	CRB 1000U	M	35V	02H
C-311	532378000	CFN'22NF	J	63V	01G
C-401	532447000	CFS 330N	M	275VCA	02T
C-402	930073653	CMM 47N	K	630V P15	01N
C-403-404	930074038	CCN'1N0	M	1KV 2B4	01F
C-405	512240000	CEF 100U	M	385V D22	04H
C-406	522648000	CCS 4N7	M	400/4KV	02Z
C-410	532422000	CFN'2N2	J	63V	01H
C-411-609	532362000	CFN'220N	J	63V	01N
C-417	523173000	CCN'220P	M	2KV	01T
C-418	532433000	CTS 1N0	J	1KV5 P15	02A
C-420	512302000	CRA 100U	M	160V	03F
C-426	512244000	CEN'470U	M	16V	01S
C-427	512287000	CEN'220U	M	25V	01G
C-502	930072294	CFN'10N	K	63V	01H
C-601-602A-701	930073833	CRA 10U	T	250V	01Z
C-604	512309000	CEN'10U	M	I.R.63V	01Q
C-713	522625000	CAT 2N2	M	2KV	01P
C605	532396000	CTS 7N7	J	2KV P225	01F
C606	532436000	CPM 330N	K	250V P15	02L
CH-1	612654000	BNS-56UH	K	SUB.	01Q
CH-201-202-JP175	930071276	BNA-10UH	K		01Q
CH-401-402	930071361	BCH 47UH	K	800MA	02C

Ref.	Code Number	Description	P. K.
CH-403	612665000	BNA-2,2UH K	01P
CH-404-405	930072465	BNU 23.5D050F4,1 TA593/A	01M
CH-501A	612635000	BNS-1UH K SUB.	01Q
CH-603	930070854	BNA-4,7 UH K	01P
CH101	612634000	BNS-10UH K SUB.	01Q
CH601	612553000	COIL	03T
CI-1	931590074	CI ST6377BB1/BMI NOVA02H	05K
CI-101	592995000	CI TDA8361A	06A
CI-102	592986000	CI TDA4665	04G
CI-104	592999000	CI 74HC4053 PH MOS	03A
CI-201	592990000	CI TDA7056/A	03U
CI-301	592596000	CI TDA3653B	03Q
CI-401	592679000	CI TEA2261	04B
CI-402	592641000	CI TDA8138 (SIP9)	03U
CN-201	682688000	2 WAYS CONNECTOR P2,5M	01L
CN-TTX1-TTX2	682601000	8 WAYS CONNECTOR P2.5M	01T
CN301	682153000	4 WAYS CONNECTOR P5 M	01K
CN401	682678000	2 WAYS CONNECTOR P7,62M V	02H
CN402	682151000	3 WAYS CONNECTOR P5 M	01H
CN601A-601B	682596000	4 WAYS CONNECTOR P=2,5 WH4D-1	01G
CN701A-CN701B	682611000	6 WAYS CONNECTOR P=2,5 WH6D-1	01K
D-101-102-103-104-106-108-501-502-503-702-704-706	582183000	DCM.LL4148 BULK	01D
D-107-301-401-402-403-404	930074478	DSR-1N4006 IFSM 50A	01E
D-405	930074457	DSC-1N4148	01B
D-406-602	930074085	DSC-BA157 VR400 IF1/9A	01F
D-407-603-604	583029000	DSC-BA159 VR1000 IF1/9A	01G
D-408-409	582219000	DRV-BYV27/100 I=2A	02F
D-410 A	582179000	DRV-BYV95C VR600 I1,5/35A	01T
DL-1	582221000	DLD LED D=3 GREEN/RED	02G
DZ-101	584010000	DZE-ZPD5V1	01D
DZ-401	930070972	DZE-ZPD3V3	01D
DZ-402	930070796	CI -ZTK33A 30-32V	02H
DZ-601	930074074	DZE-ZPD8V2	01E
F-401	652035000	2A T 250V FUSE 5X20	01M
FC-101	930702202	RI 5,5 FILTER M. SFT/MA	03L
FC-103	792371000	TPS5,5MB-FILTER TF21	02V
FC-501	792264000	OA.STD FILTER P/BG OFWG1962	04N
I-401	672138000	POWER SWITCH 5/120A 250V	03T
IR1	792295100	INFRARED RECEIVER LTM-9034A-	04E
L-101	612668000	BSE 7X7 38,9MHZ	02P
P-101	552167000	POA 4K7 M 0,1W	01M
P-102	552226000	PTO 10K M 0,1W <	01V

Ref.	Code Number	Description	P. K.
P-302	930072357	PTV 100R M 0,1W	01N
P-303	552214000	PTV 100K M 0,1W	01N
P-401	930072519	POA 1K0 M 0,1W	01M
P301	930070362	PTV 4K7 M 0,1W	01H
P701-702	930072547	POA 2K2 M 0,1W	01M
PO-402	930071400	PTC 260VRMS I.MIN.>5A	03L
PR-803N	682510000	HEADPHONE STEREO	04A
PS-1	682777000	SCART SOCKET (BLUE)	03F
Q-1	792297000	8MHZ QUARTZ HC49/U (20PF)	03C
Q-101	792452000	4433,619KHZ QUARTZ HC49/U	03N
R-1-507-603-613	930070342	RFU-4R7 J 0,3W	01K
R-101	930070013	RFU-2R2 J 0,4W	01P
R-201	930071005	RPM 4R7 J 2W	01F
R-308	543769000	RSM-1R2 J 0,7W	01G
R-310	930071020	RSC 270R J 1W	01C
R-401	543915000	RFA 4R7 K 4W	02M
R-404	930070094	RFU 1R0 J 1W	01P
R-410	544228000	RPM-15R J 1W	01H
R-411	543983000	RPM 33K J 2W	01H
R-412	543069000	RSM-33R J 0,7W	01H
R-417	544137000	RFA-R47 J 2W	02C
R-418 A	544462000	RPA 1K0 J 10W T=25	03B
R-419	930071086	RAI 10M J 1W	02C
R-604	544476000	RPC 100R J 4W	02H
R-607	543088000	RPV 6K8 K 5W	02P
R-612	544477000	RPA 5R6 J 5W	02Q
R-614A	543126000	RFP 2K2 J 1W	02A
R-615-617	543083000	RFU-R10 K 0,5W	01V
R-705-715-725	543762000	RPM 10K J 1W	01F
R731A	544222000	RSM-1R5 J 1W	01P
REF-A1-A2	342087000	SPRING OT STN	01H
REF. R-202S, JP-140	930074793	DSR-1N4001 IFSM 50A	01E
REF.-JP19	544501000	RFU 3R9 J 07W NKS4	01K
T-101-104-107-403-601-801	572282000	TNC=BC848/B NPN 1K	01G
T-102-103	930071228	TRN'BC548B NPN CO.>	01F
T-110-111-112-113-301-402	930071228	TRN'BC548B NPN EM.>	01F
T-302	930071230	TRN'BC558B PNP CO.>	01D
T-401	572318000	TR SGSF313-XI PNP	03H
T-401-CI-301-302-603A	342086000	SPRING SOT-93	01H
T-404	572331000	TRN'BC635 NPN EM.>	01T
T-501-502-503	572294000	TNC=BC858B PNP 3K	01F
T-504	572260000	TR BSX20 NPN	02D
T-602	572234000	TR BD675 NPN	02L

Ref.	Code Number	Description				P. K.
T-603	572362000	TR BU808DXI				04C
T-701-704-707	572314000	TRN'BF422		NPN BA.>		01N
T-703	572324000	TRN'BF421		NPN BA.>		01N
T-706-709	572319000	TRN'BF421		NPN EM.>		01Q
TR-401	612648000	BFR 2X28MH +/-30%				04D
TR-402	622154000	SWITCH MODE 14/21				04T
TR-601	632094000	EHT TRANSFORMER				06B
TRC-1	682643000	CRT SOCKET 14"/17"M.N.				03R
TS-1	672115000	FRONT TACT SWITCH (KEYBOARD)				03R
FOR DL1	483147100	LED SUPPORT				01K
FOR F401	652031000	6 A 250V FUSE P=15				01Q
TOTAL ASSY	**805274000**	**21"MAIN CHASSIS PC180**				
PC136	805153000	DECODER STEREO				06V
	882238000	TUNER UNIT				06L
C-1-148-206S-416-508	512184000	CEN'47U	M	25V	->	01F
C-101	930073163	CEN'2U2	M	63V	+>	01E
C-104-109-124	930070828	CEN'1U0	M	100V	->	01E
C-11-147-415-431	512278000	CEN'220U	M	25V	+>	01M
C-110-202-407-408-607-608	930073161	CEN'1U0	M	100V	+>	01F
C-118-206	512254000	CEN'47U	M	25V	+>	01F
C-123-308-510-610	532276000	CFN'100N	K	63V		01H
C-125	930073663	CEN'4U7	M	63V	->	01E
C-140-430-305	512276000	CEN'10U	M	63V	->	01F
C-141-802	930073972	CEN'2U2	M	63V	->	01T
C-150-135-207S-507	930071451	CEN'100U	M	25V	->	01G
C-201S-307	930072983	CRB 1000U	M	25V		02E
C-204-204S-423	930072506	CRB 470U	M	25V		01T
C-309	930073745	CEN'100U	M	35V	+>	01P
C-310	930073427	CRB 1000U	M	35V		02H
C-311	532378000	CFN'22NF	J	63V		01G
C-401	532447000	CFS 330N	M	275VCA		02T
C-402	930073653	CMM 47N	K	630V P15		01N
C-403-404	930074038	CCN'1N0	M	1KV 2B4		01F
C-405	512240000	CEF 100U	M	385V D22		04H
C-406	522648000	CCS 4N7	M	400/4KV		02Z
C-410	532422000	CFN'2N2	J	63V		01H
C-411-609	532362000	CFN'220N	J	63V		01N
C-417	523173000	CCN'220P	M	2KV		01T
C-418	532433000	CTS 1N0	J	1KV5 P15		02A
C-420	512302000	CRA 100U	M	160V		03F
C-424-432-603	930073747	CEN'100U	M	25V	+>	01G

Ref.	Code Number	Description	P. K.
C-426	512244000	CEN'470U M 16V +>	01S
C-427	512287000	CEN'220U M 25V ->	01G
C-502	930072294	CFN'10N K 63V	01H
C-601-602A-701	930073833	CRA 10U T 250V	01Z
C-604	512309000	CEN'10U M I.R.63V ->	01Q
C-605	930071801	CTS 7N5 J 2KV P225	02N
C-606	532435000	CPM 470N K 250V P15	02S
C-7-112	930073468	CEN'10U M 63V +>	01G
C-713	522625000	CAT 2N2 M 2KV	01P
CH-1	612654000	BNS-56UH K SUB.	01Q
CH-201-202-JP175	930071276	BNA-10UH K	01Q
CH-203-204	612659000	BNR'10UH K	01S
CH-401-402	930071361	BCH 47UH K 800MA	02C
CH-403	612665000	BNA-2,2UH K	01P
CH-404-405	930072465	BNU 23.5D050F4,1 TA593/A	01M
CH-603	930070854	BNA-4,7 UH K	01P
CH101	612634000	BNS-10UH K SUB.	01Q
CI-101	592995000	CI TDA8361A	06A
CI-102	592986000	CI TDA4665	04G
CI-104	592999000	CI 74HC4053 PH MOS	03A
CI-201-201S	592990000	CI TDA7056/A	03U
CI-301	592596000	CI TDA3653B	03Q
CI-401	592679000	CI TEA2261	04B
CI-402	592641000	CI TDA8138 (SIP9)	03U
CI-1	931590074	CI NOVA02H ST6377BB1/BMI	05K
CN-201	682688000	2 WAYS CONNECTOR P2,5M	01L
CN-201S	682706000	3 WAYS CONNECTOR P2,5M	01M
CN-TTX1-TTX2	682601000	8 WAYS CONNECTOR P2.5M	01T
CN301	682153000	4 WAYS CONNECTOR P5 M	01K
CN401	682678000	2 WAYS CONNECTOR P7,62M V	01H
CN402	682151000	3 WAYS CONNECTOR P5 M	01H
CN601A-601B	682596000	4 WAYS CONNECTOR P=2,5 WH4D-1	01G
CN701A-CN701B	682611000	6 WAYS CONNECTOR P=2,5 WH6D-1	01K
CNS904	682292000	5 WAYS CONNECTOR P2.5M	01M
CNST-901-902	682674000	10 WAYS CONNECTOR P2,54	02P
CNST-903	682681000	12 WAYS CONNECTOR P2,54 STRIP	02T
D-101-102-103-104-106-108-501-502-503-504 D-702-704-706	582183000	DCM.LL4148 BULK	01D
D-105-405	930074457	DSC-1N4148	01B
D-301-401-402-403-404	930074478	DSR-1N4006 IFSM 50A	01E
D-406-602	930074085	DSC-BA157 VR400 IF1/9A	01F
D-407-603-604	583029000	DSC-BA159 VR1000 IF1/9A	01G
D-408-409	582219000	DRV-BYV27/100 I=2A	02F

Ref.	Code Number	Description	P. K.
D-410 A	582179000	DRV-BYV95C VR600 I1,5/35A	01T
D-410ST	582220000	DRV-BYV28/100 I=3,5A	02R
DL-1	582221000	DLD LED D=3 GREEN /RED	02G
DZ-101	584010000	DZE-ZPD5V1	01D
DZ-401	930070972	DZE-ZPD3V3	01D
DZ-402	930070796	CI -ZTK33A 30-32V	02H
DZ-601	930074074	DZE-ZPD8V2	01E
F-401	652035000	2A T 250V FUSE 5X20	01M
FC-102	930702202	RI 5,5 FILTER M. SFT/MA	03L
FC-103	792371000	TPS5,5MB-TF21 FILTER	02V
I-401	672138000	POWER SWITCH 5/120A 250V	03T
IR-1	792295100	INFRARED RECEIVER LTM-9034A-	04E
L-101	612668000	BSE 7X7 38,9MHZ	02P
P-101	552167000	POA 4K7 M 0,1W	01M
P-102	552226000	PTO 10K M 0,1W <	01V
P-302	930072357	PTV 100R M 0,1W	01N
P-303	552214000	PTV 100K M 0,1W	01N
P-401	930072519	POA 1K0 M 0,1W	01M
P-701-702	930072547	POA 2K2 M 0,1W	01M
PO-401	930071400	PTC 260VRMS I.MIN.>5A	03L
PR-803	682510000	PRJ CUFFIA ST.C/SW D3.5MM	04A
PS-1	682777000	SCART SOCKET (BLUE)	03F
Q-1	792297000	8MHZ QUARTZ HC49/U (20PF)	03C
Q-101	792452000	4433,619KHZ QUARTZ HC49/U	03N
R-1-507-603-613	930070342	RFU-4R7 J 0,3W	01K
R-101	930070013	RFU-2R2 J 0,4W	01P
R-201-201S	544491000	RPM-2R2 J 2W	01P
R-202S	543111000	RFU-R22 K 0,4W	01N
R-308	544222000	RSM-1R5 J 1W	01P
R-401	543915000	RFA 4R7 K 4W	02M
R-404	930070094	RFU 1R0 J 1W	01P
R-410	544228000	RPM-15R J 1W	01H
R-411	543983000	RPM 33K J 2W	01H
R-412	543069000	RSM-33R J 0,7W	01H
R-417	544137000	RFA-R47 J 2W	02C
R-418 A	544462000	RPA 1K0 J 10W T=25	03B
R-419	930071086	RAI 10M J 1W	02C
R-604	544476000	RPC 100R J 4W	02H
R-612	544477000	RPA 5R6 J 5W	02Q
R-705-715-725	543762000	RPM 10K J 1W	01F
R-731	543643000	RPM R68 K 2W	01Q
REF.-JP19	544501000	RFU 3R9 J 07W NKS4	02E
T-101-104-107-403-601-801	572282000	TNC=BC848/B NPN 1K	01G
T-102-103	930071228	TRN'BC548B NPN CO.>	01F

Ref.	Code Number	Description			P. K.
T-110-111-112-113-301-402	930071228	TRN'BC548B		NPN EM.>	01F
T-302	930071230	TRN'BC558B		PNP CO.>	01D
T-401	572318000	TR SGSF313-XI		PNP	03H
T-404	572331000	TRN'BC635		NPN EM.>	01T
T-501-502-503	572294000	TNC=BC858B		PNP 3K	01F
T-504	572260000	TR BSX20		NPN	02D
T-602	572234000	TR BD675		NPN	02L
T-603	572362000	TR BU808DXI			04C
T-701-704-707	572314000	TRN'BF422		NPN BA.>	01N
T-703	572324000	TRN'BF421		NPN BA.>	01N
T-706-709	572319000	TRN'BF421		NPN EM.>	01Q
TR-401	612648000	BFR 2X28MH +/-30%TOROID.			04D
TR-402	622153000	SWITCH MODE 14"21" PC180			05A
TR-601	632090000	EHT TRANSFORMER			06E
TRC-1	682784000	CRT SOCKET			03R
TS-1	672115000	FRONT TACT SWITCH			03R
FOR DL1	483147100	LED SUPPORT			01K
FOR F401	652031000	6 A 250V FUSE P=15			01Q
TOTAL ASSY	805248000	MAIN CHASSIS PC180			
PC136	805153000	STEREO DECODER			06V
	882238000	TUNER UNIT			06L
C-1-118-206-148-416-508-206S	512184000	CEN'47U	M	25V	01F
C-101-141-802	930073972	CEN'2U2	M	63V	01T
C-104-109-110-124-202-407-408-607-608	930073161	CEN'1U0	M	100V	01F
C-11-147-415-427-431	512278000	CEN'220U	M	25V	01M
C-123-308-510-610	532276000	CFN'100N	K	63V	01H
C-125	930073663	CEN'4U7	M	63V	01E
C-7-112-140-430-305	512276000	CEN'10U	M	63V	01G
C-150-135-424-432-603-507-207S	930071451	CEN'100U	M	25V	01G
C-204-204S-423	930072506	CRB 470U	M	25V	01T
C-307-201S	930072983	CRB 1000U	M	25V	02E
C-309	930073745	CEN'100U	M	35V	01P
C-310	930073427	CRB 1000U	M	35V	02H
C-311	532378000	CFN'22NF	J	63V	01G
C-401	532447000	CFS 330N	M	275VCA	02T
C-402	930073653	CMM 47N	K	630V P15	01N
C-403-404	930074038	CCN'1N0	M	1KV 2B4	01F
C-405	512240000	CEF 100U	M	385V D22	04H

Ref.	Code Number	Description	P. K.
C-406	522648000	CCS 4N7 M 400/4KV	02Z
C-410	532422000	CFN'2N2 J 63V	01H
C-411-609	532362000	CFN'220N J 63V	01N
C-417	523173000	CCN'220P M 2KV	01T
C-418	532433000	CTS 1N0 J 1KV5 P15	02A
C-420	512302000	CRA 100U M 160V	03F
C-426	512244000	CEN'470U M 16V	01S
C-502	930072294	CFN'10N K 63V	01H
C-601-701	930073833	CRA 10U T 250V	01Z
C-602	532224000	CPM 680N J 250VP225	02Z
C-604	512309000	CEN'10U M I.R.63V	01Q
C-605	532396000	CTS 7N7 J 2KV P225	01F
C-606	532436000	CPM 330N K 250V P15	02L
C-713	522625000	CAT 2N2 M 2KV	01P
CH-1	612654000	BNS-56UH K SUB.	01Q
CH-101-907	612634000	BNS-10UH K SUB.	01Q
CH-201-202-JP175 -906	930071276	BNA-10UH K	01Q
CH-203-204	612659000	BNR'10UH K	01S
CH-401-402	930071361	BCH 47UH K 800MA	02C
CH-403	612665000	BNA-2,2UH K	01P
CH-404-405	930072465	BNU 23.5D050F4,1 TA593/A	01M
CH-601	612553000	BLI X DEF.90°	03T
CH-603	930070854	BNA-4,7 UH K	01P
CH-901	612674000	BNC=1UH K CHIP	02H
CI-1	931590074	CI NOVA02H ST6377BB1/BMI	05K
CI-101	592995000	CI TDA8361A	06A
CI-102	592986000	CI TDA4665	04G
CI-104	592999000	CI 74HC4053 PH MOS	03A
CI-201-201S	592990000	CI TDA7056/A	03U
CI-301	592596000	CI TDA3653B	03Q
CI-401	592679000	CI TEA2261	04B
CI-402	592641000	CI TDA8138 (SIP9)	03U
CN-201	682688000	2 WAYS CONNECTOR P2,5M	01L
CN-201S	682706000	3 WAYS CONNECTOR P2,5M	01M
CN-TTX1-TTX2	682601000	8 WAYS CONNECTOR P2.5M	01T
CN-301	682153000	4 WAYS CONNECTOR P5 M	01K
CN-401	682678000	2 WAYS CONNECTOR P7,62M V	02H
CN-402	682151000	3 WAYS CONNECTOR P5 M	01H
CN-601A-601B	682596000	4 WAYS CONNECTOR P=2,5 WH4D-1	01G
CN701A-CN701B	682611000	6 WAYS CONNECTOR P=2,5 WH6D-1	01K
CNS904	682292000	5 WAYS CONNECTOR P2.5M V	01M
CNST-901-902	682674000	10 WAYS CONNECTOR P2,54 STRIP	02P
CNST-903	682681000	12 WAYS CONNECTOR P2,54	02T

Ref.	Code Number	Description	P. K.
D-101-102-103-104-106-108-501-502-503-702-704-706	582183000	DCM.LL4148 BULK	01D
D-301-401-402-403-404	930074478	DSR-1N4006 IFSM 50A	01E
D-405	930074457	DSC-1N4148	01B
D-406-602	930074085	DSC-BA157 VR400 IF1/9A	01F
D-407-603-604	583029000	DSC-BA159 VR1000 IF1/9A	01G
D-408-409	582219000	DRV-BYV27/100 I=2A	02F
D-410A D-410A	582179000	DRV-BYV95C VR600 I1,5/35A	01T
D-410ST	582220000	DRV-BYV28/100 I=3,5A	02R
DL1	582221000	DLD LED D=3 GREEN/RED	02G
DZ-401	930070972	DZE-ZPD3V3	01D
DZ-601	930074074	DZE-ZPD8V2	01E
DZ101	584010000	DZE-ZPD5V1	01D
DZ402	930070796	CI -ZTK33A 30-32V	02H
F-401	652035000	FUSE 2A T 250V 5X20	01M
FC-102	930702202	RI 5,5 FILTER M. SFT/MA	03L
FC-103	792371000	TPS5,5MB-TF21 FILTER	02V
I-401	672138000	POWER SWITCH 5/120A 250V	03T
IR1	792295100	INFRARED RECEIVER LTM-9034A-	04E
L-101	612668000	BSE 7X7 38,9MHZ	02P
P-101	552167000	POA 4K7 M 0,1W	01M
P-102	552226000	PTO 10K M 0,1W <	01V
P-301	930070362	PTV 4K7 M 0,1W	01H
P-302	930072357	PTV 100R M 0,1W	01N
P-303	552214000	PTV 100K M 0,1W	01N
P-401	930072519	POA 1K0 M 0,1W	01M
P-701-702	930072547	POA 2K2 M 0,1W	01M
PO-401	930071400	PTC 260VRMS I.MIN.>5A	03L
PR-803	682510000	SOCKET ST.C/SW D3.5MM	04A
PS-1	682777000	SCART SOCKET (BLUE)	03F
Q-1	792297000	8MHZ QUARTZ HC49/U (20PF)	03C
Q-101	792452000	4433,619KHZ QUARTZ HC49/U	03N
R-1-507-603-613	930070342	RFU-4R7 J 0,3W	01K
R-101	930070013	RFU-2R2 J 0,4W	01P
R-202S	543111000	RFU-R22 K 0,4W	01N
R-308-731A	544222000	RSM-1R5 J 1W	01P
R-310	930071020	RSC 270R J 1W	01C
R-401	543915000	RFA 4R7 K 4W	02M
R-404	930070094	RFU 1R0 J 1W	01P
R-410	544243000	RSM-10R J 1W	01G
R-411	543983000	RPM 33K J 2W	01H
R-412	544184000	RSM-22R J 1W	01H
R-417	544136000	RFA-R33 J 2W	02C
R-418 A	544462000	RPA 1K0 J 10W T=25	03B

Ref.	Code Number	Description	P. K.
R-419	930071086	RAI 10M J 1W	02C
R-604	544476000	RPC 100R J 4W	02H
R-607	543088000	RPV 6K8 K 5W	02P
R-612	544477000	RPA 5R6 J 5W	02Q
R-614A	543126000	RFP 2K2 J 1W	02A
R-615-617	543083000	RFU-R10 K 0,5W	01V
R-705-715-725	543762000	RPM 10K J 1W	01F
T-101-104-107-403-601-801	572282000	TNC=BC848/B NPN 1K	01G
T-102-103	930071228	TRN'BC548B NPN CO.>	01F
T-110-111-112-113-301-402	930071228	TRN'BC548B NPN EM.>	01F
T-302	930071230	TRN'BC558B PNP CO.>	01D
T-401	572318000	TR SGSF313-XI PNP	03H
T-404	572331000	TRN'BC635 NPN EM.>	01T
T-501-502-503	572294000	TNC=BC858B PNP 3K	01F
T-504	572260000	TR BSX20 NPN	02D
T-602	572234000	TR BD675 NPN	02L
T-603	572362000	TR BU808DXI	04C
T-701-704-707	572314000	TRN'BF422 NPN BA.>	01N
T-703	572324000	TRN'BF421 NPN BA.>	01N
T-706-709	572319000	TRN'BF421 NPN EM.>	01Q
TR-402	622153000	SWITCH MODE TRANSFORMER	05A
TR-601	632094000	EHT TRANSFORMER	06B
TR401	612648000	BFR 2X28MH +/-30%	04D
TRC-2	682643000	CRT SOCKET 14"/17"M.N.	03R
TS-1	672115000	FRONT TACT SWITCH (KEYBOARD)	03R
FOR DL1	483147100	LED SUPPORT	01K
FOR F401	652031000	6 A 250V FUSE P=15	01Q
TOTAL ASSY	**805153000**	**STEREO DECODER PC136**	
C-901-915	930073663	CEN'4U7 M 63V ->	01E
C-902	512174000	CEN'10U M 35V ->	01F
C-903	930073972	CEN'2U2 M 63V ->	01T
C-905	512184000	CEN'47U M 25V ->	01F
C-914-946	930071451	CEN'100U M 25V ->	01G
C-918-936	930073743	CEN'47U M 25V +>	01F
C-919-920-921-922	930073468	CEN'10U M 63V +>	01G
C.I 903	593000000	CI TDA3845 DIP16	04M
CH-906-907	612634000	BNS-10UH K SUB.	01Q
CI-904	593001000	CI MSP3400 SDIP64	06B
CNST-901&902	682775000	24 WAYS CONNECTOR P2,54	03F
CNST-903	682674000	10 WAYS CONNECTOR P2,54	02P
FC-901	792428000	FILTER OFWG3264	04V

Ref.	Code Number	Description	P. K.
L901	612668000	BSE 7X7 38,9MHZ	02P
Q-901	792461000	18,432MHZ QUARTZ HC49/U	03H
REF.-CNST904	682653000	5 WAYS CONNECTOR P2.5M	01M
T-905-908	572282000	TNC=BC848/B NPN 1K	01G
T-906	572294000	TNC=BC858B PNP 3K	01F
T-907	572292000	TRN'BC369 PNP BA.>	02D

TOTAL ASSY	**804689400**	**TELETEXT DECODER.IT. 4.PC016**	
C-6-23	930073747	CEN'100U M 25V +>	01G
C-20	930073161	CEN'1U0 M 100V +>	01F
C-24	512175000	CEN'220U M 16V ->	01L
CI-1	592996000	CI CF72416N PIN20	04E
CI-2	592997000	CI CF70095 ANF PIN28	05F
CI-3	592483000	CI 74HC4066 MOS	02L
D-2	582232000	DVA-BB911/A	01S
D-3	582254000	DCC=BAS16 A6	01K
L-1	612698000	BSE 36,5M 7X7 DSG-3040	02N
Q-1	792188000	13,875MHZ QUARTZ HC49 T=5	03C
R-1	542366000	RFU-6R8 J 0,3W	01K
T-1-3-4-5-6-7	572282000	TNC=BC848/B NPN 1K	01G
T-2	572225000	TRN'BC369 EM.>	02B
T-8	572294000	TNC=BC858B PNP 3K	01F

TOTAL ASSY	**805233000**	**TELETEXT DECODER PC183**	
C1020	930070828	CEN'1U0 M 100V ->	01E
C1023	930073747	CEN'100U M 25V +>	01G
C1024	512278000	CEN'220U M 25V +>	01M
C1025	930073165	CEN'22U M 35V +>	01F
CI-1001	592996000	CI CF72416N PIN20	04E
CI-1002	592756000	CI CF70095	05L
D1002	582232000	DVA-BB911/A	01S
L1001	612698000	BSE 36,5M 7X7 DSG-3040	02N
Q1001	792188000	13,875MHZ QUARTZ HC49 T=5	03C
T1001-1008	930071230	TRN'BC558B PNP EM.>	01D
T1002	572292000	TRN'BC369 PNP BA.>	02D
T1003-1005-1006	930071228	TRN'BC548B NPN EM.>	01F
T1004-1007	930071228	TRN'BC548B NPN CO.>	01F
TTX1001-1002	682781000	8 WAYS CONNECTOR P2,5F ST H	02Q

Ref.	Code Number	Description	P. K.

MECHANICAL COMPONENTS 015/407 - 015/415

1	412486100	FRONT CABINET	05L
2	452324100	BACK COVER	05L
3	423835000	FRONT PANEL	04K
4	432461000	LABEL	03C
5	362352000	BUTTON (POWER)	01V
6	742007100	AERIAL	04S
7	483558000	PLASTIC PLUG	01N

MECHANICAL COMPONENTS 765/279 - 765/295

1	412549020	FRONT CABINET	06M
2	452342000	BACK COVER	05U
3	423822000 423823000	FRONT PANEL 765/295 FRONT PANEL 765/279	04Z 04T
4	432461000	LABEL	03C
5	362361000	BUTTON (POWER)	01V
6	483448000	BASE	05C
7	483237000	INSERT	01T
8	483558000	PLASTIC PLUG	01N

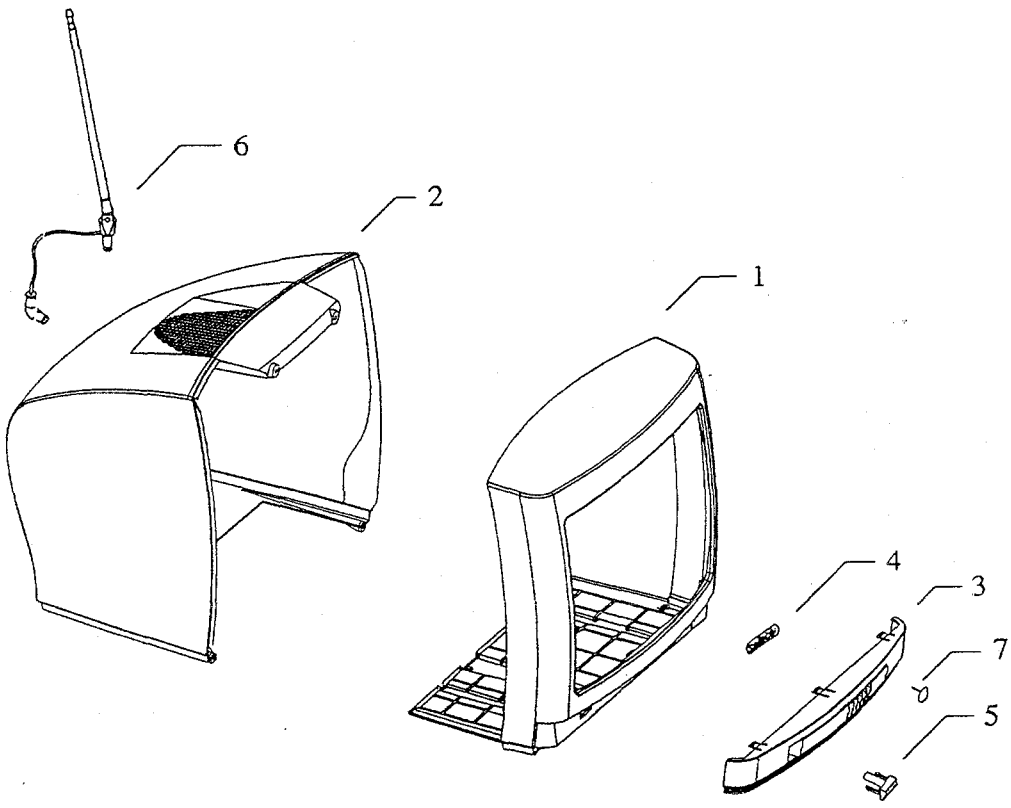
MECHANICAL COMPONENTS 765/309 - 765/333

1	412548020 412616000	FRONT CABINET 765/309 FRONT CABINET 765/333	06M
2	452342000	BACK COVER	05U
3	423823000	FRONT PANEL	04T
4	432461000	LABEL	03C
5	362361000	BUTTON (POWER)	01V
6	483448000	BASE	05C
7	483211000	INSERT	01T
8	483558000	PLASTIC PLUG	01N

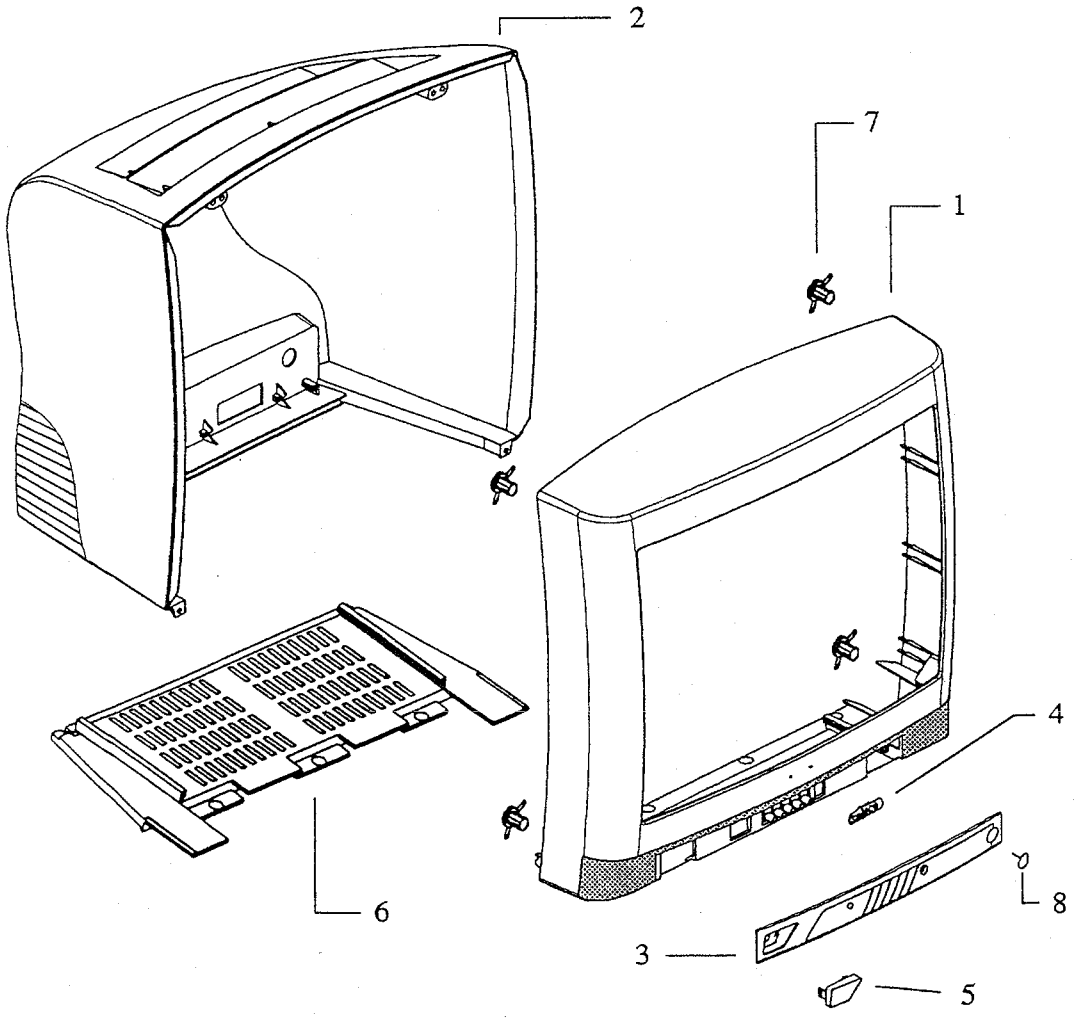
MECHANICAL COMPONENTS 765/317

1	412551020	FRONT CABINET	06Q
2	452343000	BACK COVER	06A
3	392332000	WINDOW	03M
4	362363000	BUTTON (POWER)	01V
5	432461000	LABEL	03C
6	483211000	INSERT	01T
7	483558000	PLASTIC PLUG	01M

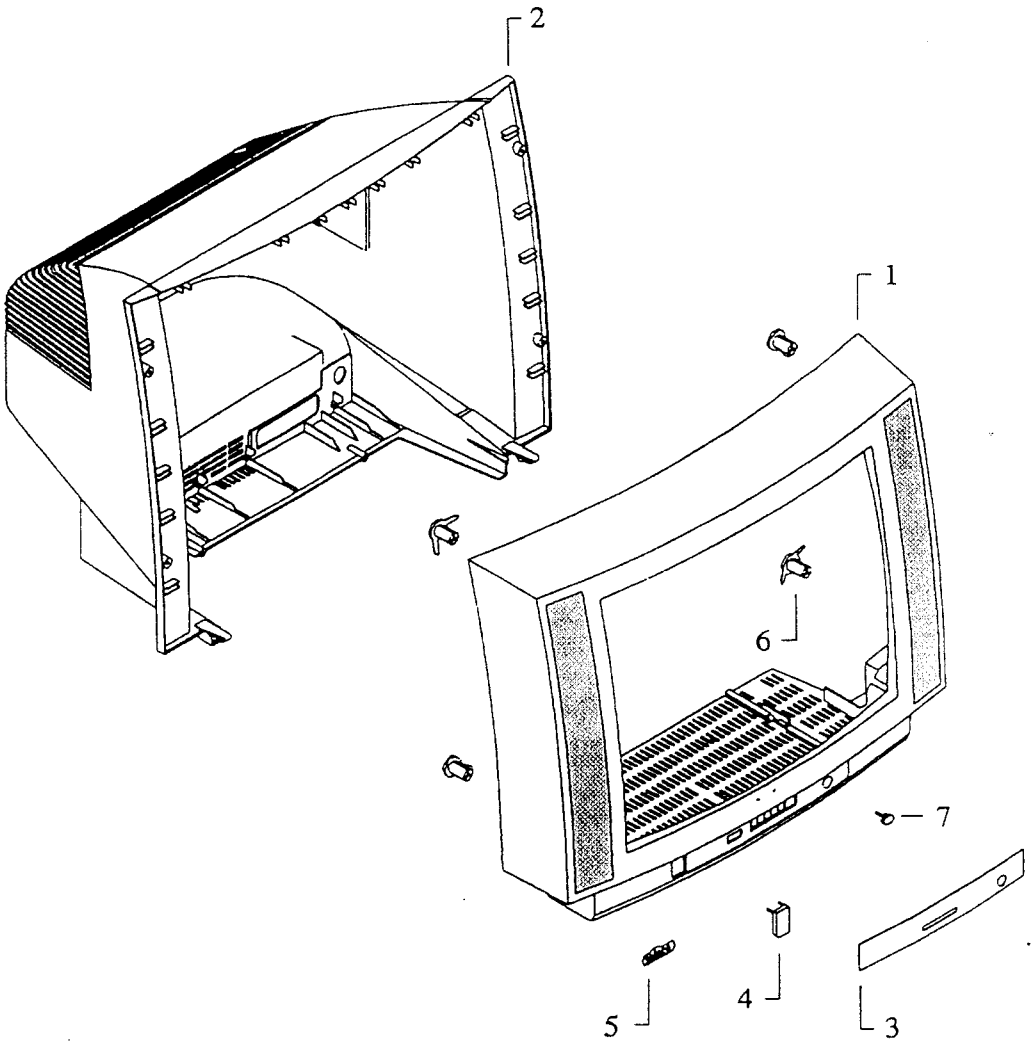
015/407 - 015/415



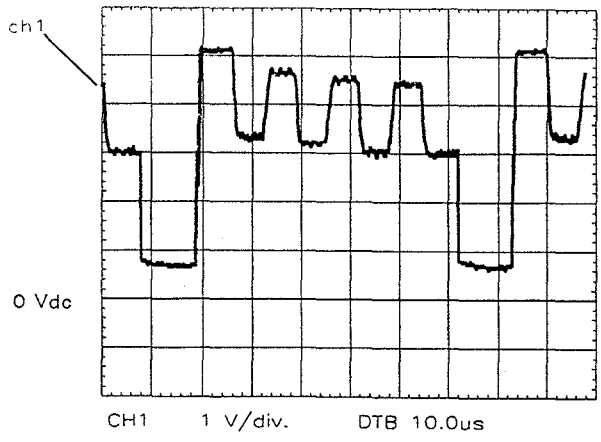
765/279 - 765/295 - 765/309 - 765/333



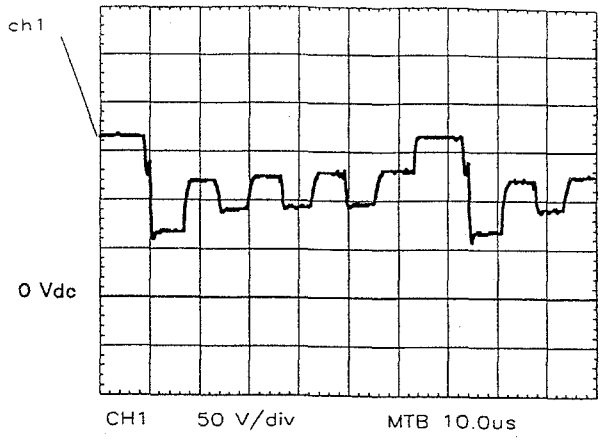
765/317



WAVE FORMS PC180



TP74



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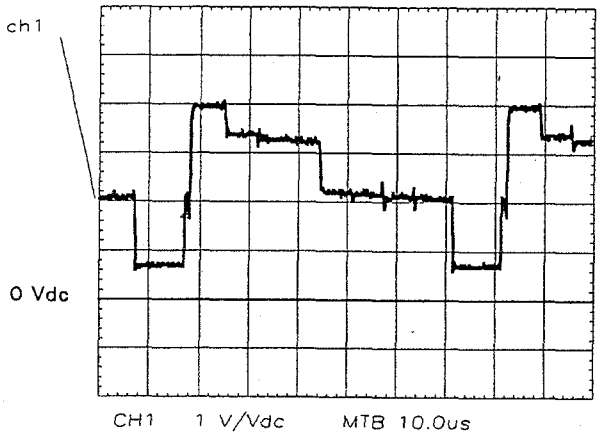

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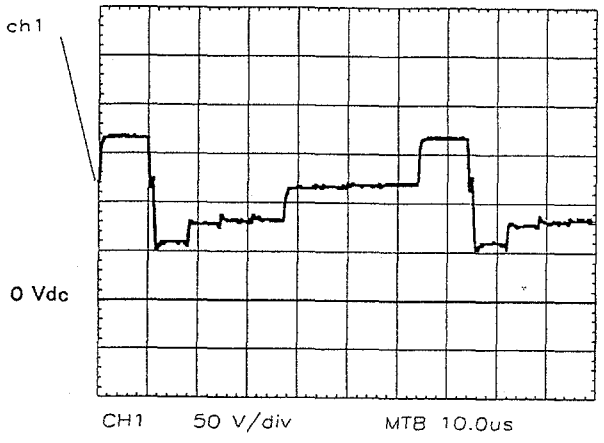
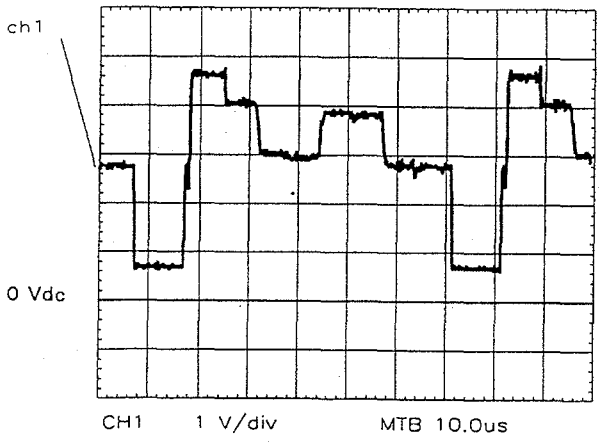
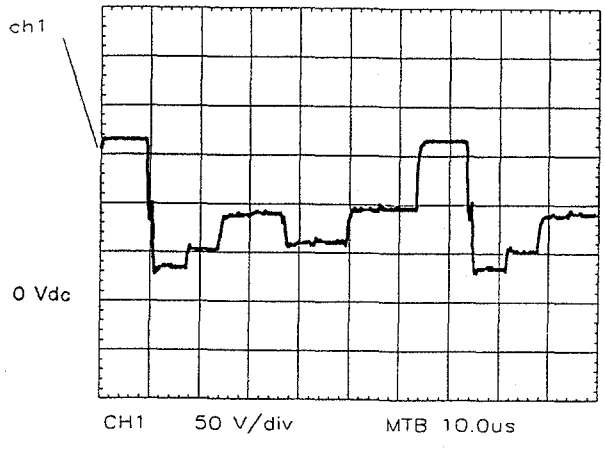


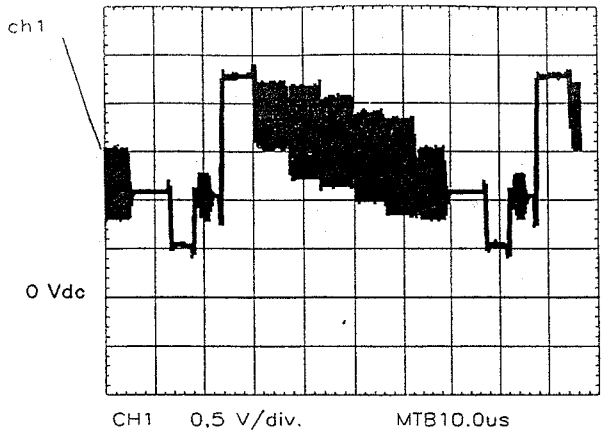
TP158



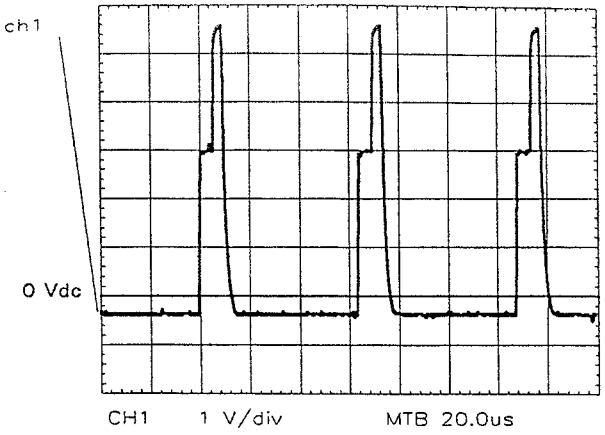
TP72



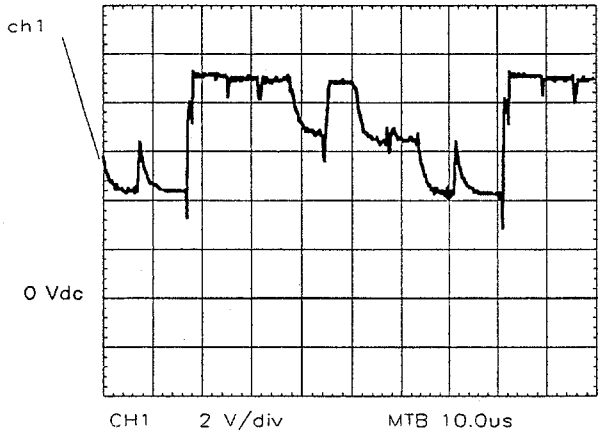
TP157



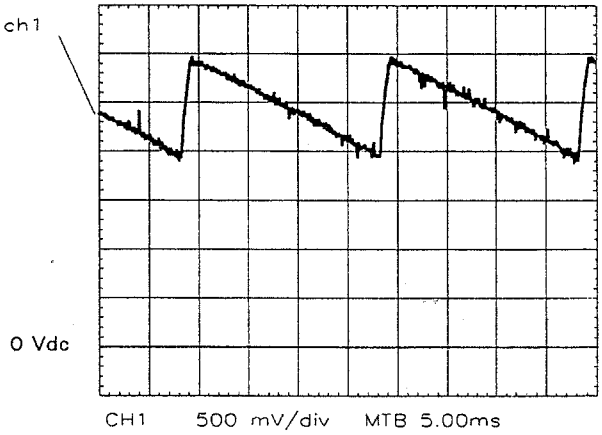
TP80



Pin 38 CI101



TP75



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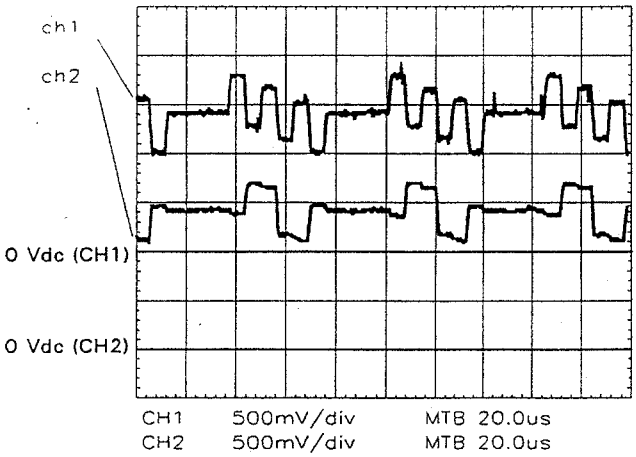
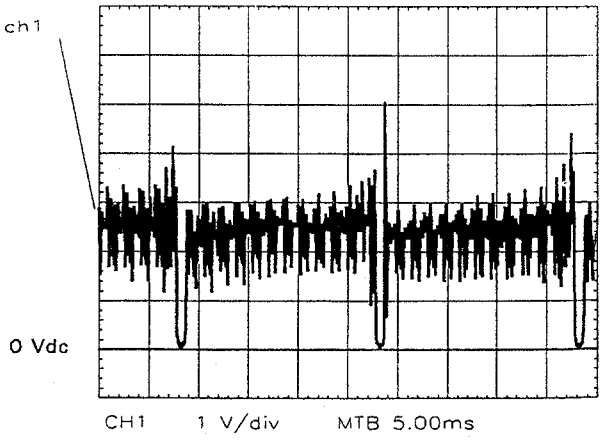


CH1 Pin14 CI102
CH2 Pin16 CI102



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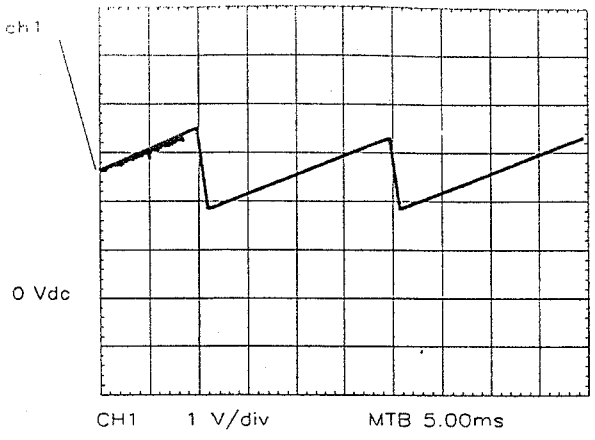
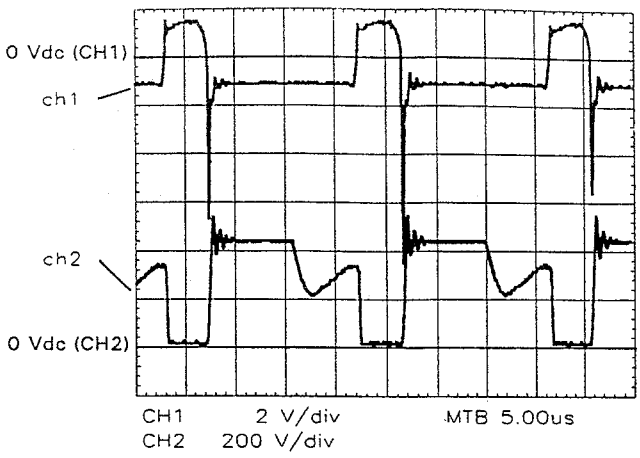
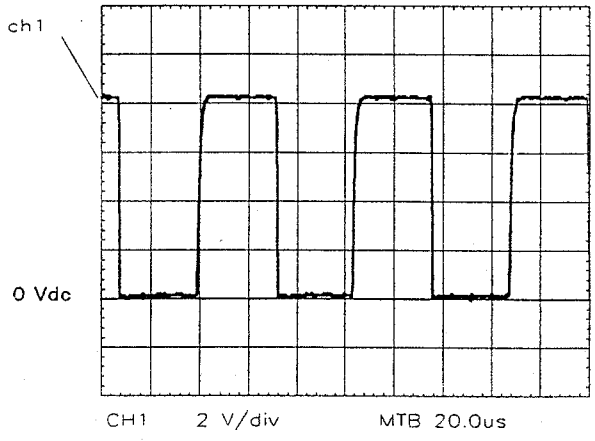


Pin 43 CI101

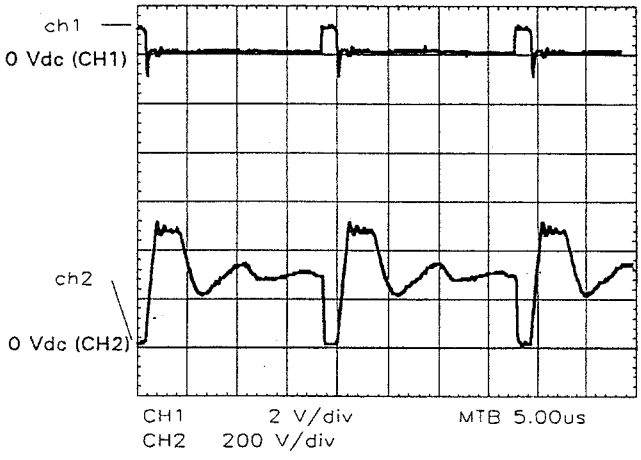


TVC ON

CH1 Base T401
CH2 Colettore T401

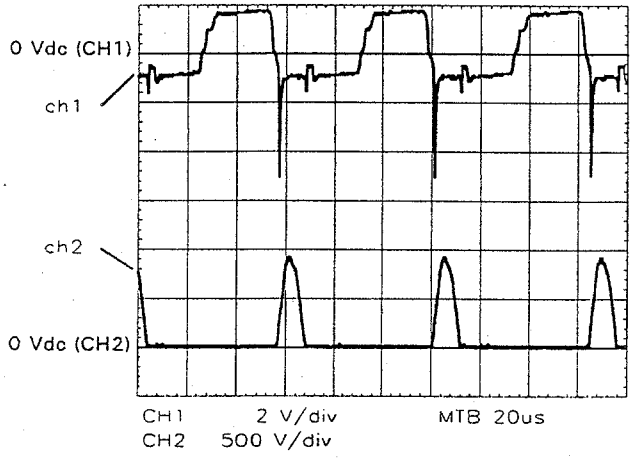


Pin 37 CI101

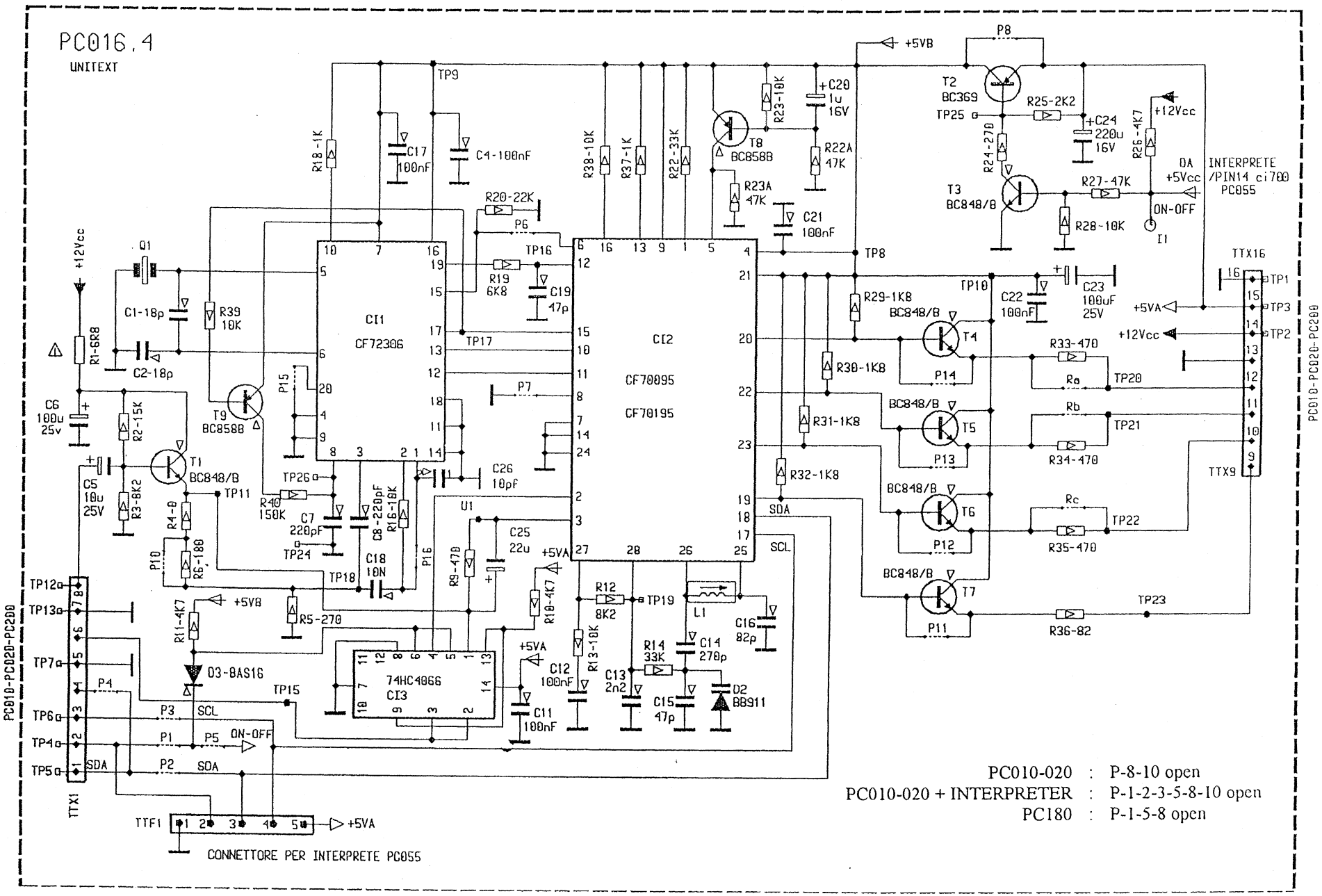


TVC STAND-BY

CH1 Base T401
CH2 Collector T401



CH1 Base T603
CH2 Collector T603


PC016.4
UNITEXT
CI1
CF72306
CI2
CF70095
CF70195
CI3
74HC4066
T1 BC848/B
T2 BC369
T3 BC848/B
T4 BC848/B
T5 BC848/B
T6 BC848/B
T7 BC848/B
T8 BC858B
T9 BC858B
D3-BAS16
D2 BB911
L1
Q1
U1
TTX1
TTX9
TTX16
TTF1
CONNETTORE PER INTERPRETE PC055
INTERPRETE /PIN14 ci700 PC055
ON-OFF
SCL
SDA
+5VB
+5VA
+12Vcc
PC010-PC020-PC200
PC010-020 : P-8-10 open
PC010-020 + INTERPRETER : P-1-2-3-5-8-10 open
PC180 : P-1-5-8 open

PC180.0

CI1 ST6367

CI101 TDA8362A

CI201S TDA7056A

CI201 TDA7056A

CI301 TDA3653B

CI401 TEA2261

CI402 TDA8138

FC501 OFWG1962M

CI1103 TDA8395

CI1102 TDA8395

CI103 7808

CI104 74HC4053

TUNER

DEGAUSSING

220VAC

LED RADIO

L=TV
H=TXT

CI101
TDA8362A

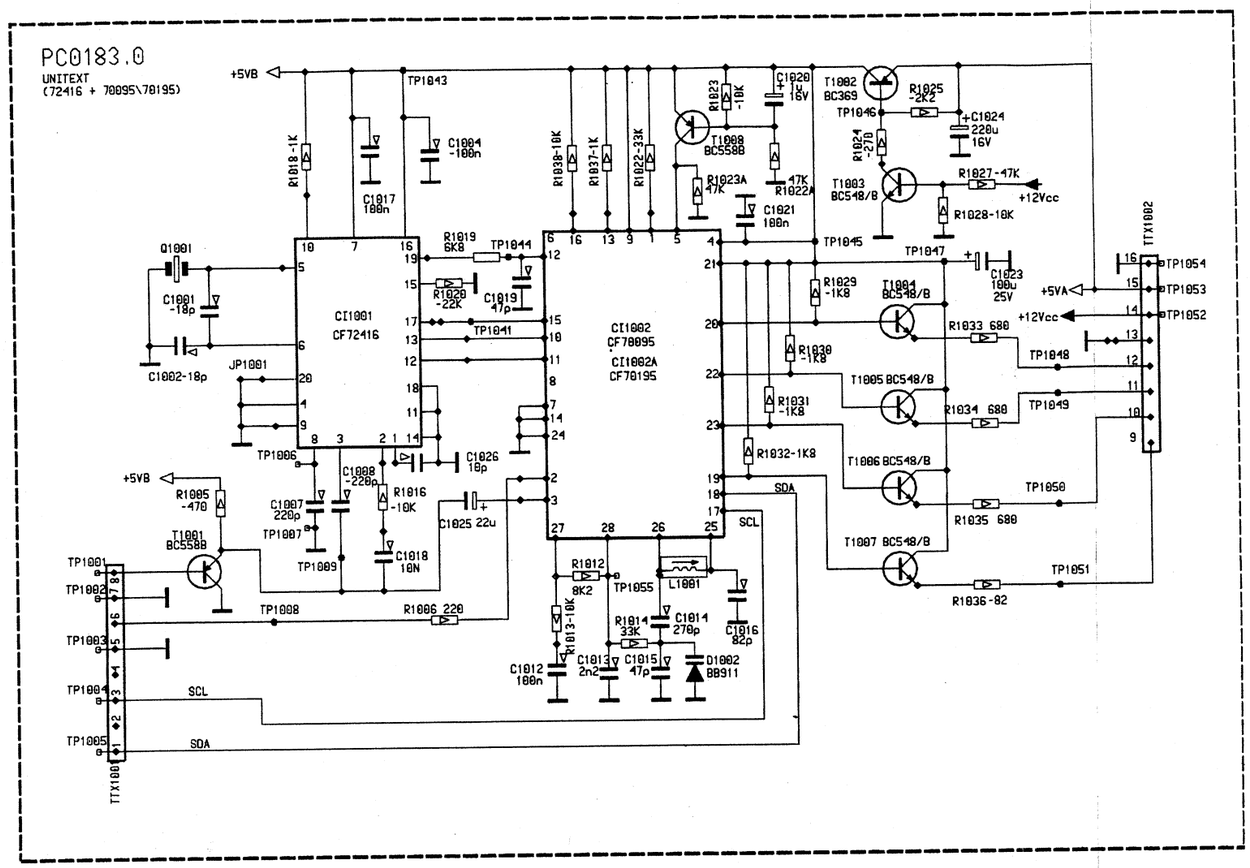
CI201S
TDA7056A

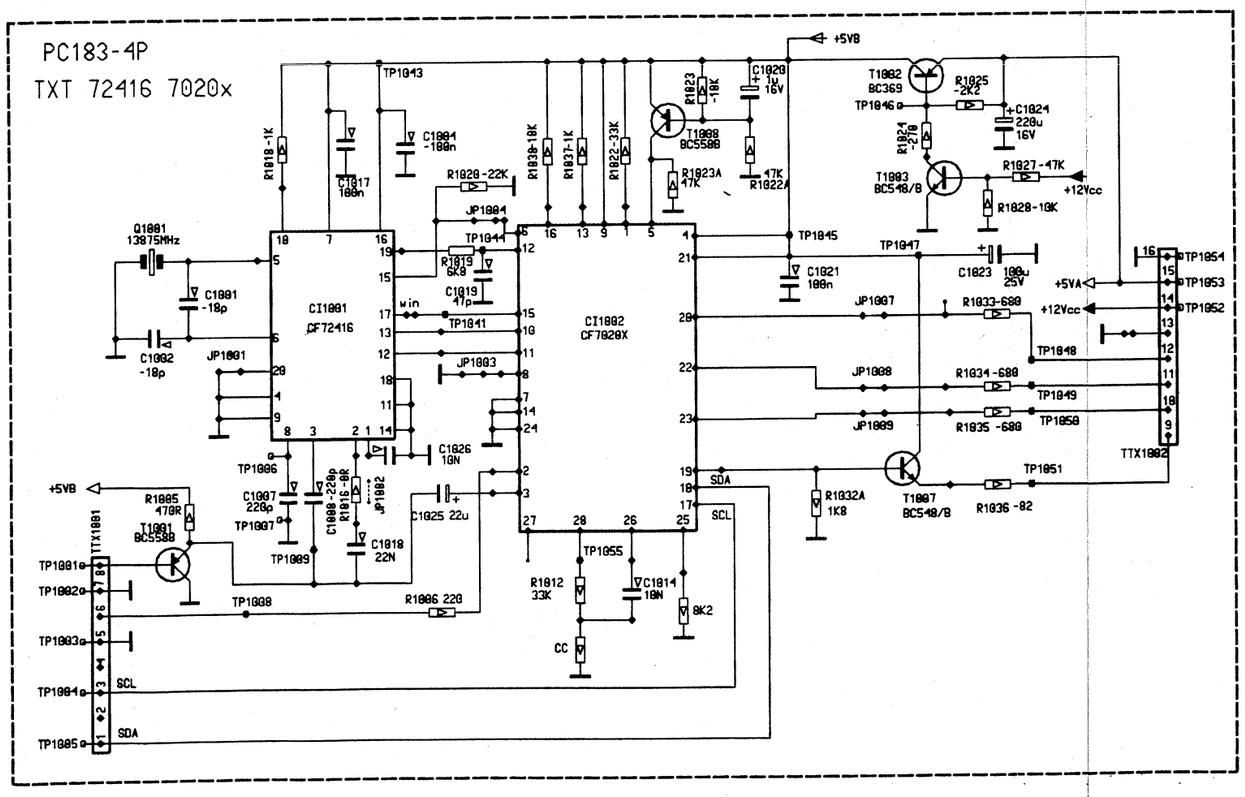
CI201
TDA7056A

CI301
TDA3653B

CI402
TDA8138

PC181.0
FINALI VIDEO





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Moreover, they decline all responsibility for eventual errors, whether due to misprints or incorrect transcription, and reserve the right to make any necessary or useful changes without jeopardizing the essential characteristics.
All resistors without markings are 1/4 W - 5%. All measurements refer to ground with mains supply 220V (240V UK) correct picture and a voltmeter of 20.000 Ohm/V.

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Alle Widerstände ohne Bezeichnung sind 1/4 W - 5%. Alle Messungen beziehen sich auf Masse, mit einer Netzspannung von 220 V (240 V UK) und normalem Fernsehsignal gemessen mit einem Voltmeter von 20.000 Ohm/V.

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Toutes les résistances sans d'indication sont de 1/4 W - 5%. Toutes les mesures sont respect a la masse, avec tension secteur 220 V (240 V UK). Image corecte et avec un voltmètre de 20.000 Ohm/V.

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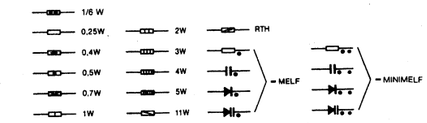
Tutte le resistenze prive d'indicazione s'intendono da 1/4 W - 5%. Tutte le misure s'intendono rispetto a massa con alimentazione rete 220 V (240 V UK). Immagine corretta e con un voltmetro da 20.000 Ohm/V.



In order to ensure the maximum safety and reliability, original spare parts should always be used when replacing components.
Particular care should be taken when replacing components marked with the symbol ⚠

Zur Gewährleistung von Sicherheit und Zuverlässigkeit dürfen nur Original-Ersatzteile verwendet werden.
Besondere Sorgfalt wird bei den Teilen, die mit dem Symbol ⚠ gekennzeichnet sind, verlangt.

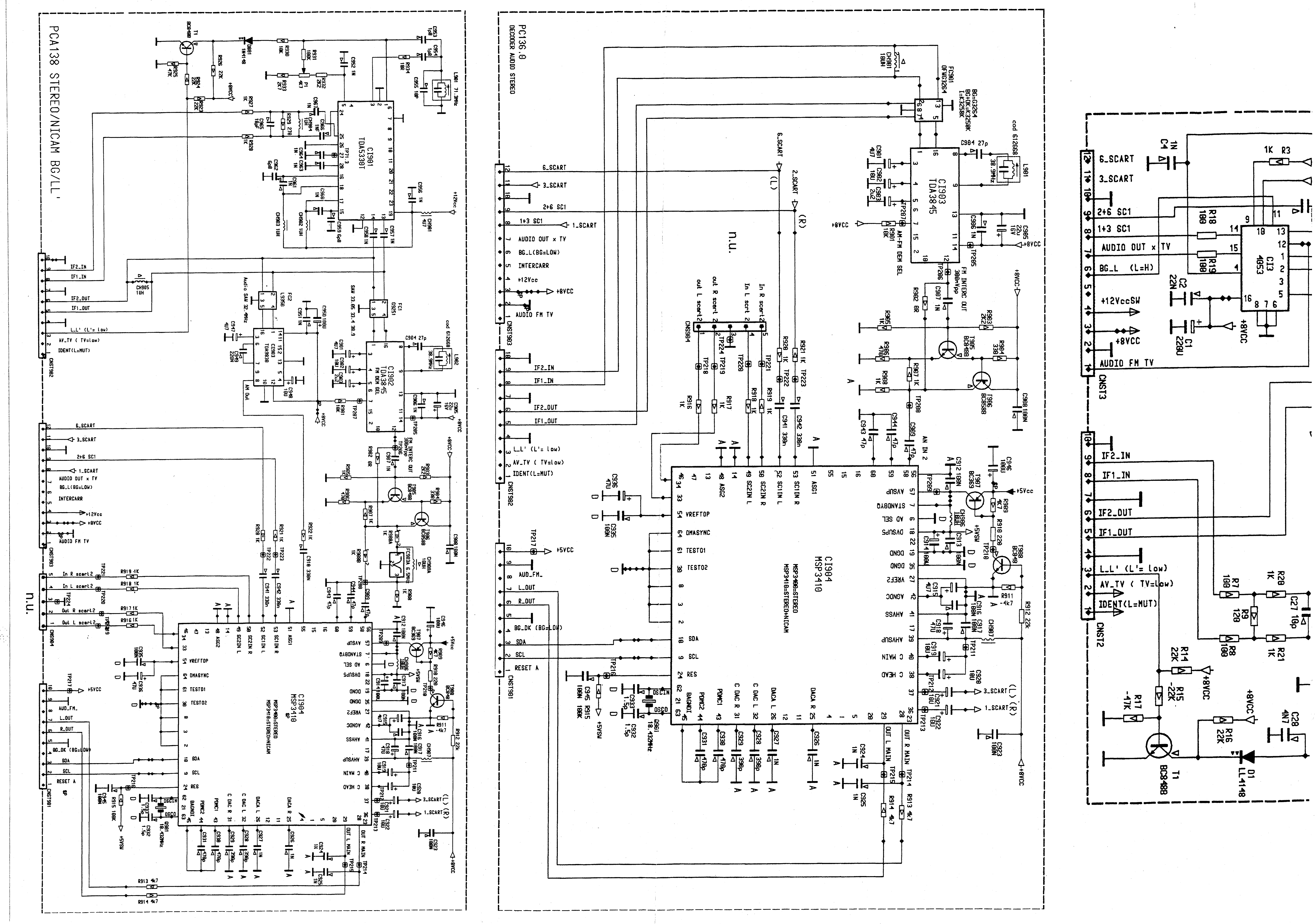
Pour une plus grande sécurité et fiabilité, tous les composants doivent être remplacés par des pièces originales.
Il faut prêter une attention particulière à ceux portant le symbole ⚠ .

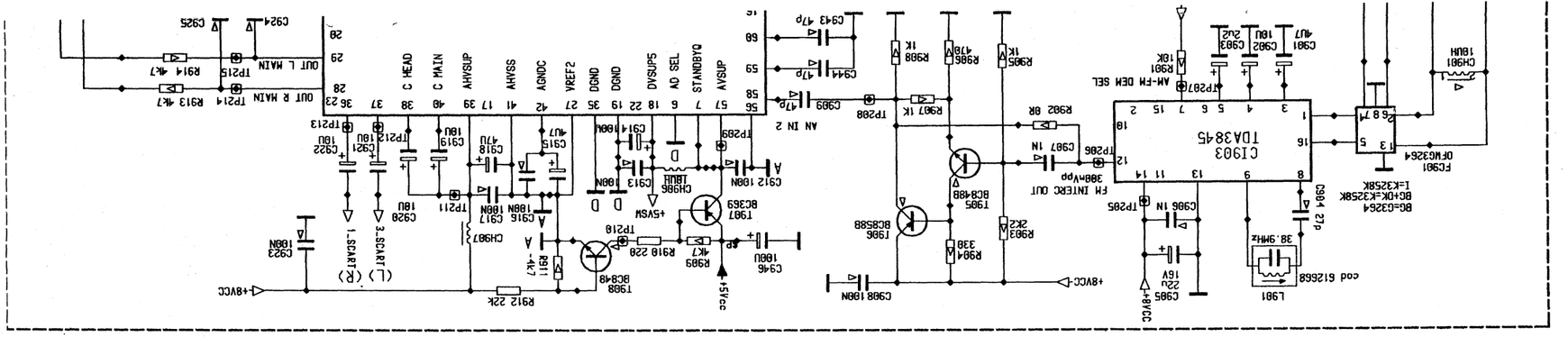
Ai fini della sicurezza ed affidabilità tutti i componenti devono essere sostituiti con pezzi originali.
Particolare attenzione va posta a quelli contrassegnati con il simbolo ⚠ .

MEASUREMENTS PERFORMED USING COLOUR BARS WITH 100% MODULATION
MESSUNGEN SIGNALTYP 100% MODULIERTES FARBBALKEN
LES MESURES SONT EFECTUEES AVEC SIGNAL: MIRE EN COULEUR MODULEE AU 100%
RILIEVI ESEGUITI CON SEGNALE: BARRE COLORE MODULATE AL 100%

Colour TV receiver
Televisione a colori
NOVA
PC 180 - 90°

SAVIOPRINT SPA - PN 1112/95 931.460.005


PCA138 STEREO/NICAM BG/LL'
PC136.0
DECODER AUDIO STEREO
CI901 TDA5330T
CI902 TDA3845
CI903 TDA9830
CI903 TDA3845
CI904 MSP3410
MSP3400=STEREO
MSP3410=STEREO+NICAM
CI3 4053
CNST981
CNST982
CNST983
CNS984
CNST901
CNST902
CNST903
CNS904
CNST2
CNST3
n.u.
6_SCART
3_SCART
2+6 SC1
1+3 SC1
1_SCART
AUDIO OUT x TV
BG_L(BG=LOW)
INTERCARR
+12Vcc
+8VCC
AUDIO FM TV
IF2_IN
IF1_IN
IF2_OUT
IF1_OUT
L_L' (L'= low)
AV_TV (TV=low)
IDENT(L=MUT)
AUD_FM_
L_OUT
R_OUT
BG_DK (BG=LOW)
SDA
SCL
RESET A
+5VCC
FM INTERC OUT 300mVpp
AM-FM DEM SEL
OUT L MAIN
OUT R MAIN
BG_L (L=H)
+12VccSW
T1 BC848B
D1 LL4148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FC5901
OFWG326A
BC+DK=K3258K
I=K3258K
L981
6126681
C984 22p
38.9MHz
C985 16V 22U
C986 1N
C987 1N
C988 100N
C989 100N
C990 100N
C991 100N
C992 100N
C993 100N
C994 100N
C995 100N
C996 100N
C997 100N
C998 100N
C999 100N
C9901 10UH
C9902 10U
C9903 4U7
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C9919 10U
C9920 10U
C9921 10U
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R9902 1K
R9903 2K2
R9904 330
R9905 1K
R9906 47U
R9907 1K
R9908 1K
R9909 47K
R9910 4K7
R9911 4K7
R9912 22K
R9913 4K7
R9914 4K7
R9915 4K7
R9916 4K7
R9917 4K7
R9918 220
R9919 4K7
R9920 4K7
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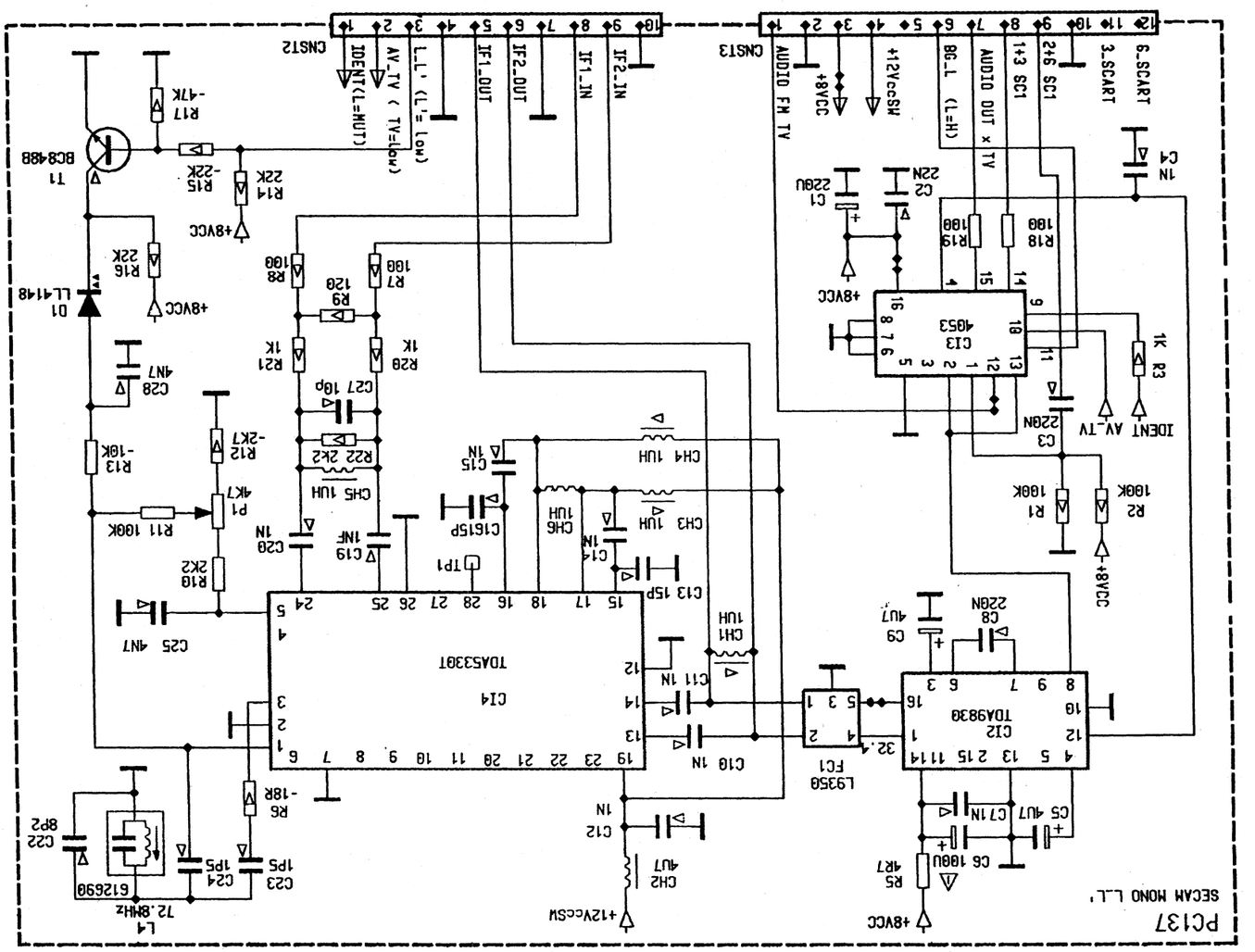
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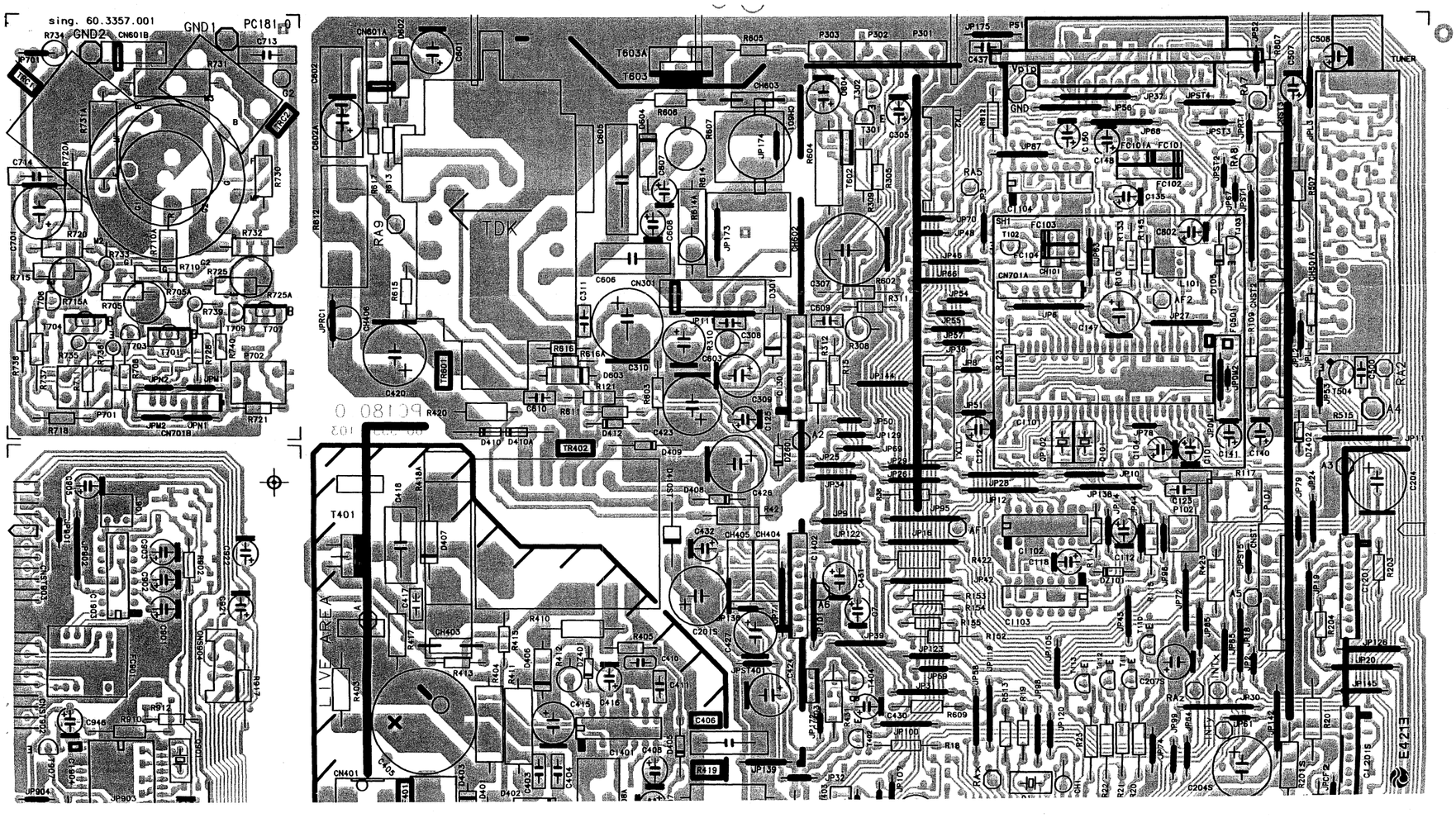
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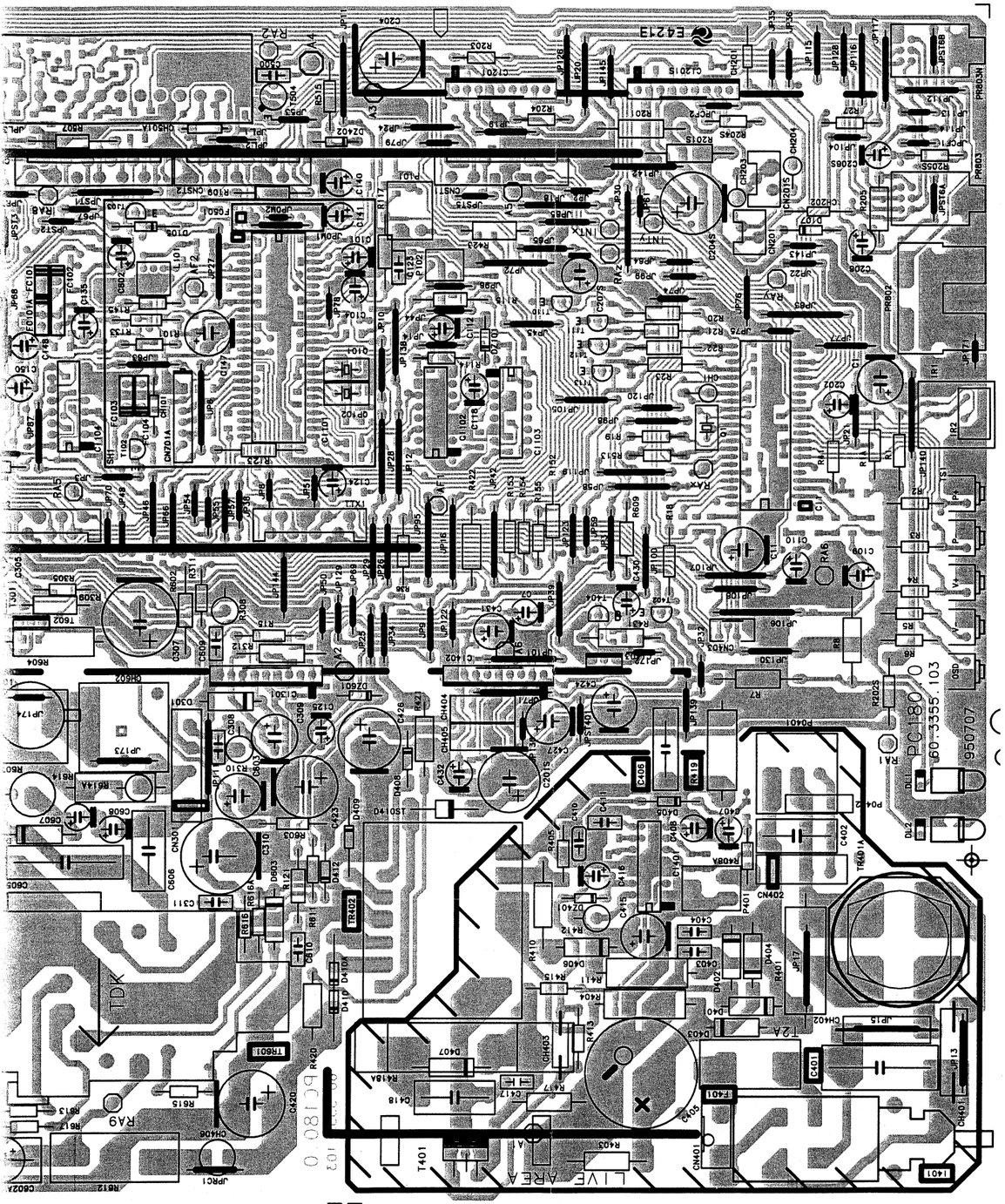
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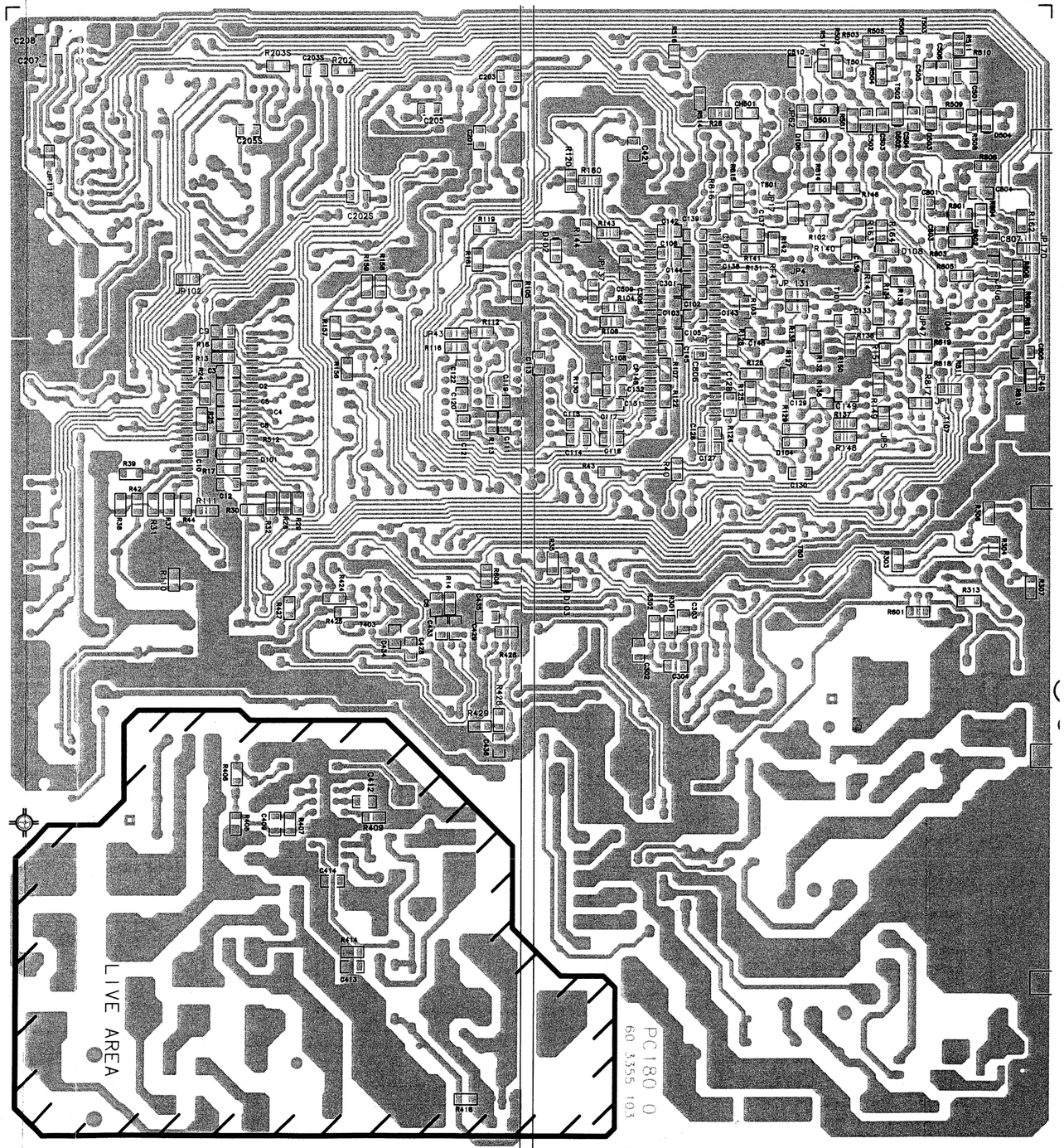
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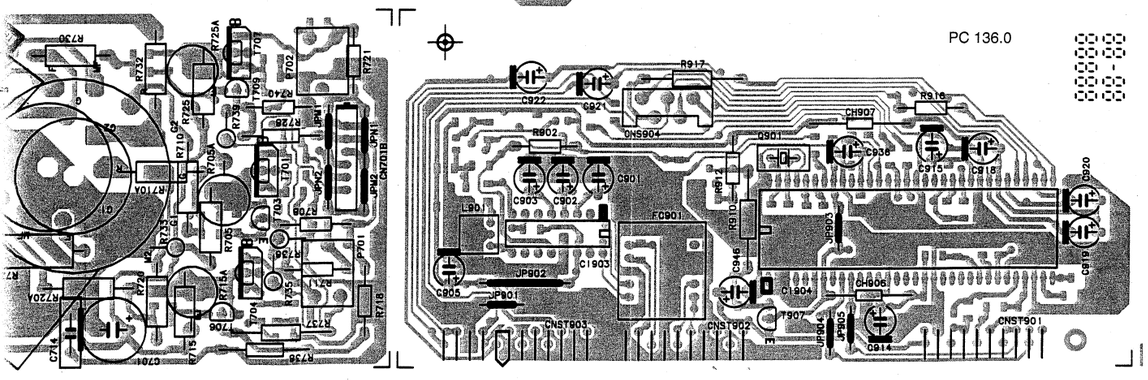
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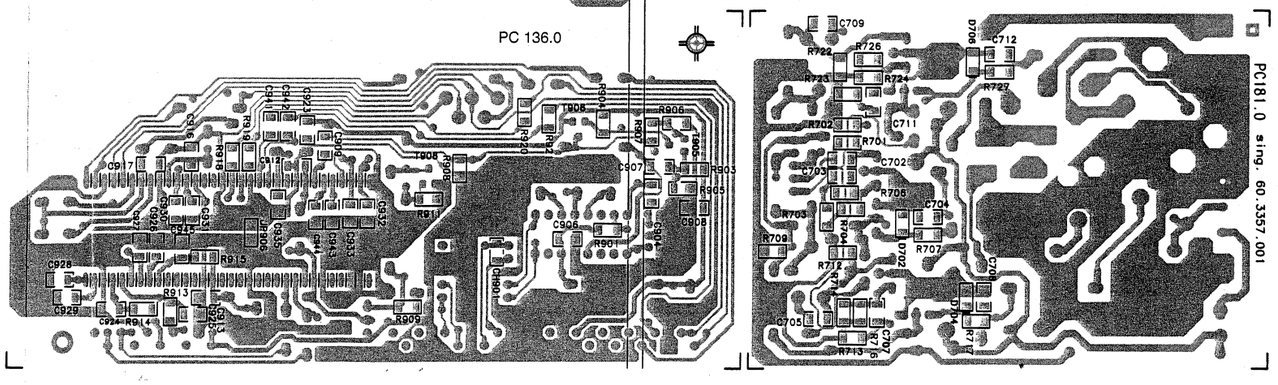
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